

GenCore version 5.1.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 22, 2002, 15:45:16 ; Search time 2663 Seconds
(without alignments)
8822.944 Million cell updates/sec

Title: US-09-374-967-1
Perfect score: 1086
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues 9285480
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 20
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	21.8	2.0	50	1	PCT-US01-47856-2668	Sequence 2668, Ap
2	21.8	2.0	50	26	US-09-670-607-4175	Sequence 4175, Ap
3	21.2	2.0	42	1	PCT-US97-09289-13	Sequence 13, Appl
4	21.2	2.0	42	26	US-09-669-516B-13	Sequence 13, Appl
c 5	20.8	1.9	50	29	US-09-755-374A-13826	Sequence 13826, A
6	20.4	1.9	50	29	US-09-755-374A-17664	Sequence 17664, A
c 7	20.2	1.9	47	47	US-60-082-614-1242	Sequence 1242, Ap
c 8	20.2	1.9	50	1	PCT-US01-47856-5838	Sequence 5838, Ap
9	20.2	1.9	50	18	US-09-401-063-1708	Sequence 1708, Ap
c 10	20	1.8	46	32	US-09-843-620-1016	Sequence 1016, Ap
11	20	1.8	50	29	US-09-755-374A-11828	Sequence 11828, A
12	20	1.8	50	29	US-09-755-374A-11830	Sequence 11830, A
c 13	20	1.8	50	47	US-60-087-422-57	Sequence 57, Appl
c 14	20	1.8	50	48	US-60-090-170-1486	Sequence 1486, Ap
c 15	19.8	1.8	40	37	US-10-017-870-8	Sequence 8, Appl
c 16	19.8	1.8	47	18	US-09-422-978-1826	Sequence 1826, Ap
c 17	19.8	1.8	48	17	US-09-310-298-5598	Sequence 5598, Ap
c 18	19.8	1.8	48	17	US-09-310-298A-5598	Sequence 5598, Ap
c 19	19.8	1.8	49	49	US-60-108-395-1608	Sequence 1608, Ap
20	19.8	1.8	50	1	PCT-US01-47856-4009	Sequence 4009, Ap
21	19.8	1.8	50	1	PCT-US01-47856-4982	Sequence 4982, Ap
22	19.6	1.8	27	18	US-09-470-988-61	Sequence 61, Appl
c 23	19.6	1.8	48	8	US-08-483-033-3	Sequence 3, Appl
24	19.6	1.8	49	11	US-08-791-173-2176	Sequence 2176, Ap
25	19.6	1.8	49	40	US-60-011-001-2176	Sequence 2176, Ap
c 26	19.6	1.8	50	29	US-09-755-374A-5030	Sequence 5030, Ap
27	19.6	1.8	50	29	US-09-755-374A-21093	Sequence 21093, A
28	19.4	1.8	35	32	US-09-843-160-702	Sequence 702, App
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	33	19.2	1.8	42	17	US-09-364-847-22	Sequence 22, Appl	106	18.6	1.7	45	8	US-08-406-855-9	Sequence 9, Appl
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	101	18.6	1.7	28	27	US-09-685-828A-13	Sequence 13, Appl	174	18.2	1.7	50	19	US-09-504-231A-3091	Sequence 3091, Ap
	102	18.6	1.7	34	29	US-09-741-106-28	Sequence 28, Appl	175	18.2	1.7	50	19	US-09-519-917-306	Sequence 306, App
c	103	18.6	1.7	34	33	US-09-864-866-24	Sequence 24, Appl	176	18.2	1.7	50	19	US-09-519-917-321	Sequence 321, App
c	104	18.6	1.7	34	33	US-09-864-866-35	Sequence 35, Appl	177	18.2	1.7	50	23	US-09-611-931-3091	Sequence 3091, Ap

470	17.2	1.6	34	16	US-09-246-191-95	Sequence 95, Appl	543	17.2	1.6	50	1	PCT-US01-47856-6901	Sequence 6901, Ap
c 471	17.2	1.6	34	16	US-09-256-855-86	Sequence 86, Appl	544	17.2	1.6	50	1	PCT-US01-47856-7216	Sequence 7216, Ap
c 472	17.2	1.6	34	16	US-09-256-855-89	Sequence 89, Appl	545	17.2	1.6	50	1	PCT-US01-47856-7238	Sequence 7238, Ap
c 473	17.2	1.6	34	17	US-09-350-522-86	Sequence 86, Appl	546	17.2	1.6	50	16	US-09-270-849B-104384	Sequence 104384,
c 474	17.2	1.6	34	17	US-09-350-522-89	Sequence 89, Appl	547	17.2	1.6	50	16	US-09-274-553B-2916	Sequence 2916, Ap
c 475	17.2	1.6	34	18	US-09-417-244-86	Sequence 86, Appl	548	17.2	1.6	50	16	US-09-274-553B-2966	Sequence 2966, Ap
c 476	17.2	1.6	34	18	US-09-417-244-89	Sequence 89, Appl	549	17.2	1.6	50	16	US-09-274-553B-3003	Sequence 3003, Ap
477	17.2	1.6	34	30	US-09-791-171-95	Sequence 95, Appl	550	17.2	1.6	50	16	US-09-274-553B-3031	Sequence 3031, Ap
478	17.2	1.6	34	31	US-09-804-980-95	Sequence 95, Appl	551	17.2	1.6	50	16	US-09-274-553C-2916	Sequence 2916, Ap
479	17.2	1.6	34	35	US-09-943-443-95	Sequence 95, Appl	552	17.2	1.6	50	16	US-09-274-553C-2966	Sequence 2966, Ap
480	17.2	1.6	35	64	US-60-253-654-30328	Sequence 30328, A	553	17.2	1.6	50	16	US-09-274-553C-3003	Sequence 3003, Ap
481	17.2	1.6	35	64	US-60-255-592-30328	Sequence 30328, A	554	17.2	1.6	50	16	US-09-274-553C-3031	Sequence 3031, Ap
c 482	17.2	1.6	37	1	PCT-US96-14563A-8	Sequence 8, Appli	c 555	17.2	1.6	50	17	US-09-342-217-1616	Sequence 1616, Ap
c 483	17.2	1.6	37	1	PCT-US98-04610-9	Sequence 9, Appli	c 556	17.2	1.6	50	17	US-09-342-217A-1616	Sequence 1616, Ap
c 484	17.2	1.6	37	14	US-09-026-593-9	Sequence 9, Appli	557	17.2	1.6	50	18	US-09-401-063-1649	Sequence 1649, Ap
485	17.2	1.6	38	17	US-09-371-772B-13696	Sequence 13696, A	558	17.2	1.6	50	18	US-09-401-063-1749	Sequence 1749, Ap
486	17.2	1.6	38	26	US-09-670-607-2215	Sequence 2215, Ap	559	17.2	1.6	50	18	US-09-401-063-1758	Sequence 1758, Ap
487	17.2	1.6	38	28	US-09-708-690-15973	Sequence 15973, A	560	17.2	1.6	50	18	US-09-472-865D-399	Sequence 399, App
488	17.2	1.6	38	33	US-09-870-161-15973	Sequence 15973, A	561	17.2	1.6	50	19	US-09-504-231A-2916	Sequence 2916, Ap
489	17.2	1.6	38	37	US-10-017-974-16005	Sequence 16005, A	562	17.2	1.6	50	19	US-09-504-231A-2966	Sequence 2966, Ap
c 490	17.2	1.6	39	17	US-09-310-298-3771	Sequence 3771, Ap	563	17.2	1.6	50	19	US-09-504-231A-3003	Sequence 3003, Ap
c 491	17.2	1.6	39	17	US-09-310-298A-3771	Sequence 3771, Ap	564	17.2	1.6	50	19	US-09-504-231A-3031	Sequence 3031, Ap
c 492	17.2	1.6	39	18	US-09-436-762A-35698	Sequence 35698, A	565	17.2	1.6	50	23	US-09-611-931-2916	Sequence 2916, Ap
493	17.2	1.6	39	28	US-09-701-926B-23	Sequence 23, Appl	566	17.2	1.6	50	23	US-09-611-931-2966	Sequence 2966, Ap
494	17.2	1.6	39	74	US-60-353-790-2859	Sequence 2859, Ap	567	17.2	1.6	50	23	US-09-611-931-3003	Sequence 3003, Ap
495	17.2	1.6	40	1	PCT-US00-29976-6	Sequence 6, Appli	568	17.2	1.6	50	23	US-09-611-931-3031	Sequence 3031, Ap
c 496	17.2	1.6	40	1	PCT-US00-29976-39	Sequence 39, Appl	569	17.2	1.6	50	26	US-09-670-607-4160	Sequence 4160, Ap
c 497	17.2	1.6	40	1	PCT-US94-13499-51	Sequence 51, Appl	c 570	17.2	1.6	50	29	US-09-726-173A-123	Sequence 123, App
c 498	17.2	1.6	40	5	US-08-156-571-51	Sequence 51, Appl	571	17.2	1.6	50	29	US-09-755-374A-3230	Sequence 3230, Ap
c 499	17.2	1.6	40	8	US-08-478-299-51	Sequence 51, Appl	c 572	17.2	1.6	50	29	US-09-755-374A-3230	Sequence 12710, A
c 500	17.2	1.6	41	16	US-09-297-269-36	Sequence 36, Appl	c 573	17.2	1.6	50	29	US-09-755-374A-12920	Sequence 12920, A
c 501	17.2	1.6	41	28	US-09-704-424-16633	Sequence 16633, A	c 574	17	1.6	25	17	US-09-396-196F-2895	Sequence 2895, Ap
502	17.2	1.6	42	1	PCT-US01-06096-30	Sequence 30, Appl	c 575	17	1.6	25	17	US-09-396-196F-53686	Sequence 53686, A
503	17.2	1.6	42	18	US-09-404-520-30728	Sequence 30728, A	576	17	1.6	25	17	US-09-396-196F-59982	Sequence 59982, A
504	17.2	1.6	44	24	US-09-623-932A-14	Sequence 14, Appl	577	17	1.6	25	17	US-09-396-196F-90399	Sequence 90399, A
505	17.2	1.6	45	8	US-08-466-601-119	Sequence 119, App	578	17	1.6	25	26	US-09-660-220-76225	Sequence 76225, A
506	17.2	1.6	45	8	US-08-466-601A-119	Sequence 119, App	c 579	17	1.6	25	35	US-09-953-115-19483	Sequence 19483, A
507	17.2	1.6	45	14	US-09-084-691-223	Sequence 223, App	580	17	1.6	25	35	US-09-956-584-146091	Sequence 146091,
508	17.2	1.6	45	14	US-09-084-691B-223	Sequence 223, App	c 581	17	1.6	25	35	US-09-956-584-154244	Sequence 154244,
509	17.2	1.6	45	17	US-09-310-298-4349	Sequence 4349, Ap	c 582	17	1.6	25	35	US-09-956-584-354961	Sequence 354961,
510	17.2	1.6	45	17	US-09-310-298A-4349	Sequence 4349, Ap	c 583	17	1.6	25	35	US-09-956-584-450991	Sequence 450991,
511	17.2	1.6	45	60	US-60-217-080-32285	Sequence 32285, A	c 584	17	1.6	25	35	US-09-956-584-556438	Sequence 556438,
512	17.2	1.6	46	18	US-09-404-520-44015	Sequence 44015, A	c 585	17	1.6	25	62	US-60-234-017-177425	Sequence 177425,
c 513	17.2	1.6	46	18	US-09-486-334-14	Sequence 14, Appl	c 586	17	1.6	25	62	US-60-234-017-188057	Sequence 188057,
c 514	17.2	1.6	47	17	US-09-310-298-4476	Sequence 4476, Ap	c 587	17	1.6	25	62	US-60-234-017-381405	Sequence 381405,
c 515	17.2	1.6	47	17	US-09-310-298A-4476	Sequence 4476, Ap	588	17	1.6	25	62	US-60-234-017-444860	Sequence 444860,
516	17.2	1.6	47	18	US-09-422-978-3167	Sequence 3167, Ap	c 589	17	1.6	25	62	US-60-234-017-575920	Sequence 575920,
c 517	17.2	1.6	47	25	US-09-641-638-1170	Sequence 1170, Ap	c 590	17	1.6	25	62	US-60-234-049-13777	Sequence 13777, A
518	17.2	1.6	47	26	US-09-671-317-905	Sequence 905, App	591	17	1.6	25	62	US-60-234-049-103243	Sequence 103243,
519	17.2	1.6	47	32	US-09-853-526-267	Sequence 267, App	592	17	1.6	25	74	US-60-353-987-39831	Sequence 39831, A
520	17.2	1.6	47	32	US-09-853-526-328	Sequence 328, App	593	17	1.6	25	74	US-60-353-987-39832	Sequence 39832, A
521	17.2	1.6	47	34	US-09-901-484A-267	Sequence 267, App	c 594	17	1.6	25	74	US-60-353-987-106162	Sequence 106162,
522	17.2	1.6	47	34	US-09-901-484A-328	Sequence 328, App	595	17	1.6	25	74	US-60-353-987-225148	Sequence 225148,
523	17.2	1.6	47	47	US-60-082-614-1137	Sequence 1137, Ap	596	17	1.6	25	74	US-60-353-987-382435	Sequence 382435,
c 524	17.2	1.6	47	60	US-60-216-745-180	Sequence 180, App	597	17	1.6	25	74	US-60-353-987-827279	Sequence 827279,
c 525	17.2	1.6	47	60	US-60-216-745-394	Sequence 394, App	598	17	1.6	25	74	US-60-353-987-849562	Sequence 849562,
526	17.2	1.6	47	60	US-60-216-745-535	Sequence 535, App	599	17	1.6	25	74	US-60-353-987-937926	Sequence 937926,
c 527	17.2	1.6	47	60	US-60-216-745-4289	Sequence 4289, Ap	600	17	1.6	25	74	US-60-353-987-982307	Sequence 982307,
c 528	17.2	1.6	48	8	US-08-472-194-25	Sequence 25, Appl	c 601	17	1.6	25	74	US-60-353-987-982307	Sequence 982307,
c 529	17.2	1.6	48	16	US-09-262-142-25	Sequence 25, Appl	c 602	17	1.6	28	8	US-08-413-938-6	Sequence 6, Appli
c 530	17.2	1.6	48	18	US-09-423-035A-25	Sequence 25, Appl	603	17	1.6	28	13	US-08-948-148-6	Sequence 6, Appli
531	17.2	1.6	48	32	US-09-848-754A-8318	Sequence 8318, Ap	c 604	17	1.6	29	15	US-09-103-636-946	Sequence 946, App
c 532	17.2	1.6	49	27	US-09-699-011A-318	Sequence 318, App	605	17	1.6	31	22	US-09-574-376B-963	Sequence 963, App
c 533	17.2	1.6	49	29	US-09-736-151-3	Sequence 3, Appli	c 606	17	1.6	33	16	PCT-US01-47856-5279	Sequence 10, Appl
c 534	17.2	1.6	49	64	US-60-253-457-20967	Sequence 20967, A	c 607	17	1.6	33	23	US-09-615-039-10	Sequence 10, Appl
535	17.2	1.6	50	1	PCT-US01-47856-485	Sequence 485, App	608	17	1.6	36	16	US-09-274-553B-2426	Sequence 2426, Ap
c 536	17.2	1.6	50	1	PCT-US01-47856-758	Sequence 758, App	c 609	17	1.6	28	8	US-08-413-938-6	Sequence 6, Appli
c 537	17.2	1.6	50	1	PCT-US01-47856-782	Sequence 782, App	c 610	17	1.6	28	13	US-08-948-148-6	Sequence 6, Appli
c 538	17.2	1.6	50	1	PCT-US01-47856-2328	Sequence 2328, Ap	c 611	17	1.6	29	15	US-09-103-636-946	Sequence 946, App
c 539	17.2	1.6	50	1	PCT-US01-47856-5189	Sequence 5189, Ap	612	17	1.6	31	22	US-09-574-376B-963	Sequence 963, App
540	17.2	1.6	50	1	PCT-US01-47856-5279	Sequence 5279, Ap	613	17	1.6	33	16	PCT-US01-47856-5279	Sequence 10, Appl
c 541	17.2	1.6	50	1	PCT-US01-47856-6276	Sequence 6276, Ap	614	17	1.6	33	23	US-09-615-039-10	Sequence 10, Appl
c 542	17.2	1.6	50	1	PCT-US01-47856-6511	Sequence 6511, Ap	615	17	1.6	36	16	US-09-274-553B-2426	Sequence 2426, Ap

616	17	1.6	36	16	US-09-274-553C-2426	Sequence 2426, Ap	Sequence 2426, Ap	c 689	17	1.6	49	64	US-60-253-456-30685	Sequence 30685, A
617	17	1.6	36	19	US-09-504-231A-2426	Sequence 2426, Ap	Sequence 2426, Ap	c 690	17	1.6	49	64	US-60-253-654-30990	Sequence 30990, A
618	17	1.6	36	23	US-09-611-931-2426	Sequence 2426, Ap	Sequence 2426, Ap	c 691	17	1.6	49	64	US-60-255-592-30990	Sequence 30990, A
619	17	1.6	37	16	US-09-262-537-52	Sequence 52, Appl	Sequence 52, Appl	c 692	17	1.6	50	1	PCT-US01-47856-241	Sequence 241, App
620	17	1.6	37	17	US-09-388-906A-24039	Sequence 24039, A	Sequence 24039, A	c 693	17	1.6	50	1	PCT-US01-47856-2039	Sequence 2039, Ap
621	17	1.6	37	17	US-09-392-706-52	Sequence 52, Appl	Sequence 52, Appl	c 694	17	1.6	50	1	PCT-US01-47856-2967	Sequence 2967, Ap
622	17	1.6	38	17	US-09-371-772B-7302	Sequence 7302, Ap	Sequence 7302, Ap	c 695	17	1.6	50	1	PCT-US01-47856-3552	Sequence 3552, Ap
623	17	1.6	38	18	US-09-474-432B-1327	Sequence 1327, Ap	Sequence 1327, Ap	c 696	17	1.6	50	1	PCT-US01-47856-3684	Sequence 3684, Ap
624	17	1.6	38	18	US-09-476-387-1326	Sequence 1326, Ap	Sequence 1326, Ap	c 697	17	1.6	50	1	PCT-US01-47856-4302	Sequence 4302, Ap
625	17	1.6	38	22	US-09-572-021-2142	Sequence 2142, Ap	Sequence 2142, Ap	c 698	17	1.6	50	1	PCT-US01-47856-5023	Sequence 5023, Ap
626	17	1.6	38	28	US-09-708-690-9579	Sequence 9579, Ap	Sequence 9579, Ap	c 699	17	1.6	50	1	PCT-US01-47856-5184	Sequence 5184, Ap
627	17	1.6	38	31	US-09-825-805-1326	Sequence 1326, Ap	Sequence 1326, Ap	c 700	17	1.6	50	1	PCT-US01-47856-5279	Sequence 5279, Ap
628	17	1.6	38	32	US-09-848-754A-5875	Sequence 5875, Ap	Sequence 5875, Ap	c 701	17	1.6	50	1	PCT-US01-47856-5595	Sequence 5595, Ap
629	17	1.6	38	33	US-09-864-785-821	Sequence 821, App	Sequence 821, App	c 702	17	1.6	50	1	PCT-US01-47856-5852	Sequence 5852, Ap
630	17	1.6	38	33	US-09-870-161-9579	Sequence 9579, Ap	Sequence 9579, Ap	c 703	17	1.6	50	1	PCT-US98-03030-13	Sequence 13, Appl
631	17	1.6	38	34	US-09-927-046-3024	Sequence 3024, Ap	Sequence 3024, Ap	c 704	17	1.6	50	13	US-08-979-416-707	Sequence 707, App
632	17	1.6	38	34	US-09-927-046-3286	Sequence 3286, Ap	Sequence 3286, Ap	c 705	17	1.6	50	13	US-08-979-416-715	Sequence 715, App
633	17	1.6	39	11	US-08-761-729-5	Sequence 5, Appli	Sequence 5, Appli	c 706	17	1.6	50	13	US-08-979-416-717	Sequence 717, App
634	17	1.6	39	37	US-10-005-956-1530	Sequence 1530, Ap	Sequence 1530, Ap	c 707	17	1.6	50	13	US-08-979-416-1553	Sequence 1553, Ap
635	17	1.6	42	3	US-07-937-539-3	Sequence 3, Appli	Sequence 3, Appli	c 708	17	1.6	50	13	US-08-979-416-1555	Sequence 1555, Ap
636	17	1.6	42	17	US-09-310-298-466	Sequence 466, App	Sequence 466, App	c 709	17	1.6	50	13	US-08-979-416-1559	Sequence 1559, Ap
637	17	1.6	42	17	US-09-310-298-4194	Sequence 4194, Ap	Sequence 4194, Ap	c 710	17	1.6	50	13	US-08-998-099-293	Sequence 293, App
638	17	1.6	42	17	US-09-310-298A-466	Sequence 466, App	Sequence 466, App	c 711	17	1.6	50	13	US-08-998-099-301	Sequence 301, App
639	17	1.6	42	17	US-09-310-298A-4194	Sequence 4194, Ap	Sequence 4194, Ap	c 712	17	1.6	50	13	US-08-998-099-304	Sequence 304, App
640	17	1.6	43	17	US-09-302-240-37	Sequence 37, Appl	Sequence 37, Appl	c 713	17	1.6	50	13	US-08-998-099-309	Sequence 309, App
641	17	1.6	43	17	US-09-310-298-4795	Sequence 4795, Ap	Sequence 4795, Ap	c 714	17	1.6	50	13	US-08-998-099-315	Sequence 315, App
642	17	1.6	43	17	US-09-310-298A-4795	Sequence 4795, Ap	Sequence 4795, Ap	c 715	17	1.6	50	14	US-09-025-635-13	Sequence 13, Appl
643	17	1.6	43	37	US-10-032-585-832	Sequence 832, App	Sequence 832, App	c 716	17	1.6	50	16	US-09-274-553B-2919	Sequence 2919, Ap
644	17	1.6	43	37	US-10-032-585-832	Sequence 832, App	Sequence 832, App	c 717	17	1.6	50	16	US-09-274-553B-2922	Sequence 2922, Ap
645	17	1.6	43	37	US-10-032-585-1847	Sequence 1847, Ap	Sequence 1847, Ap	c 718	17	1.6	50	16	US-09-274-553B-2940	Sequence 2940, Ap
646	17	1.6	43	70	US-60-314-050-832	Sequence 832, App	Sequence 832, App	c 719	17	1.6	50	16	US-09-274-553B-2943	Sequence 2943, Ap
647	17	1.6	44	3	US-07-630-900C-9	Sequence 9, Appli	Sequence 9, Appli	c 720	17	1.6	50	16	US-09-274-553B-2968	Sequence 2968, Ap
648	17	1.6	44	6	US-08-297-631-7	Sequence 7, Appli	Sequence 7, Appli	c 721	17	1.6	50	16	US-09-274-553B-2969	Sequence 2969, Ap
649	17	1.6	44	15	US-09-139-031A-7	Sequence 7, Appli	Sequence 7, Appli	c 722	17	1.6	50	16	US-09-274-553B-2973	Sequence 2973, Ap
650	17	1.6	44	15	US-09-139-031C-7	Sequence 7, Appli	Sequence 7, Appli	c 723	17	1.6	50	16	US-09-274-553B-2975	Sequence 2975, Ap
651	17	1.6	44	29	US-09-755-374A-27920	Sequence 27920, A	Sequence 27920, A	c 724	17	1.6	50	16	US-09-274-553B-3011	Sequence 3011, Ap
652	17	1.6	45	3	US-07-847-951A-99	Sequence 99, Appl	Sequence 99, Appl	c 725	17	1.6	50	16	US-09-274-553B-3029	Sequence 3029, Ap
653	17	1.6	45	4	US-08-036-218-98	Sequence 98, Appl	Sequence 98, Appl	c 726	17	1.6	50	16	US-09-274-553B-3052	Sequence 3052, Ap
654	17	1.6	45	7	US-08-358-627B-2	Sequence 2, Appli	Sequence 2, Appli	c 727	17	1.6	50	16	US-09-274-553B-3058	Sequence 3058, Ap
655	17	1.6	45	7	US-08-358-627C-2	Sequence 2, Appli	Sequence 2, Appli	c 728	17	1.6	50	16	US-09-274-553B-3060	Sequence 3060, Ap
656	17	1.6	45	7	US-08-358-627E-2	Sequence 2, Appli	Sequence 2, Appli	c 729	17	1.6	50	16	US-09-274-553B-3071	Sequence 3071, Ap
657	17	1.6	45	8	US-08-465-712A-2	Sequence 2, Appli	Sequence 2, Appli	c 730	17	1.6	50	16	US-09-274-553B-3074	Sequence 3074, Ap
658	17	1.6	45	8	US-08-465-712B-2	Sequence 2, Appli	Sequence 2, Appli	c 731	17	1.6	50	16	US-09-274-553B-3094	Sequence 3094, Ap
659	17	1.6	45	8	US-08-465-712C-2	Sequence 2, Appli	Sequence 2, Appli	c 732	17	1.6	50	16	US-09-274-553B-3102	Sequence 3102, Ap
660	17	1.6	45	17	US-09-349-925-2	Sequence 2, Appli	Sequence 2, Appli	c 733	17	1.6	50	16	US-09-274-553B-3106	Sequence 3106, Ap
661	17	1.6	45	22	US-09-552-733-2	Sequence 2, Appli	Sequence 2, Appli	c 734	17	1.6	50	16	US-09-274-553B-3122	Sequence 3122, Ap
662	17	1.6	45	71	US-60-324-185-13575	Sequence 13575, A	Sequence 13575, A	c 735	17	1.6	50	16	US-09-274-553C-2919	Sequence 2919, Ap
663	17	1.6	46	8	US-08-451-242A-2358	Sequence 2358, Ap	Sequence 2358, Ap	c 736	17	1.6	50	16	US-09-274-553C-2922	Sequence 2922, Ap
664	17	1.6	47	8	US-08-472-801-1015	Sequence 1015, Ap	Sequence 1015, Ap	c 737	17	1.6	50	16	US-09-274-553C-2940	Sequence 2940, Ap
665	17	1.6	47	10	US-08-668-235-1015	Sequence 1015, Ap	Sequence 1015, Ap	c 738	17	1.6	50	16	US-09-274-553C-2943	Sequence 2943, Ap
666	17	1.6	47	18	US-09-422-978-1824	Sequence 1824, Ap	Sequence 1824, Ap	c 739	17	1.6	50	16	US-09-274-553C-2968	Sequence 2968, Ap
667	17	1.6	47	18	US-09-422-978-1827	Sequence 1827, Ap	Sequence 1827, Ap	c 740	17	1.6	50	16	US-09-274-553C-2969	Sequence 2969, Ap
668	17	1.6	47	26	US-09-671-317-910	Sequence 910, App	Sequence 910, App	c 741	17	1.6	50	16	US-09-274-553C-2973	Sequence 2973, Ap
669	17	1.6	47	47	US-60-082-614-591	Sequence 591, App	Sequence 591, App	c 742	17	1.6	50	16	US-09-274-553C-2975	Sequence 2975, Ap
670	17	1.6	47	47	US-60-082-614-1244	Sequence 1244, Ap	Sequence 1244, Ap	c 743	17	1.6	50	16	US-09-274-553C-3011	Sequence 3011, Ap
671	17	1.6	47	60	US-60-213-362-690	Sequence 690, App	Sequence 690, App	c 744	17	1.6	50	16	US-09-274-553C-3029	Sequence 3029, Ap
672	17	1.6	47	60	US-60-216-745-279	Sequence 279, App	Sequence 279, App	c 745	17	1.6	50	16	US-09-274-553C-3052	Sequence 3052, Ap
673	17	1.6	47	60	US-60-216-745-2441	Sequence 2441, Ap	Sequence 2441, Ap	c 746	17	1.6	50	16	US-09-274-553C-3058	Sequence 3058, Ap
674	17	1.6	47	60	US-60-216-745-3200	Sequence 3200, Ap	Sequence 3200, Ap	c 747	17	1.6	50	16	US-09-274-553C-3060	Sequence 3060, Ap
675	17	1.6	47	60	US-60-216-745-3357	Sequence 3357, Ap	Sequence 3357, Ap	c 748	17	1.6	50	16	US-09-274-553C-3071	Sequence 3071, Ap
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677	17	1.6	47	71	US-60-324-185-1732	Sequence 1732, Ap	Sequence 1732, Ap	c 750	17	1.6	50	16	US-09-274-553C-3094	Sequence 3094, Ap
678	17	1.6	48	17	US-09-310-298-1202	Sequence 1202, Ap	Sequence 1202, Ap	c 751	17	1.6	50	16	US-09-274-553C-3102	Sequence 3102, Ap
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680	17	1.6	48	71	US-60-324-185-25355	Sequence 25355, A	Sequence 25355, A	c 753	17	1.6	50	16	US-09-274-553C-3122	Sequence 3122, Ap
681	17	1.6	49	3	US-07-851-217-28	Sequence 28, Appl	Sequence 28, Appl	c 754	17	1.6	50	18	US-09-401-063-1662	Sequence 1662, Ap
682	17	1.6	49	18	US-09-404-520-38604	Sequence 38604, A	Sequence 38604, A	c 755	17	1.6	50	18	US-09-401-063-1669	Sequence 1669, Ap
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685	17	1.6	49	22	US-09-565-309A-37403	Sequence 37403, A	Sequence 37403, A	c 758	17	1.6	50	18	US-09-401-063-1682	Sequence 1682, Ap
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687	17	1.6	49	27	US-09-699-011A-466	Sequence 466, App	Sequence 466, App	c 760	17	1.6	50	18	US-09-401-063-1693	Sequence 1693, Ap
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762	17	1.6	50	18	US-09-401-063-1717	Sequence 1717, Ap	835	17	1.6	50	29	US-09-755-374A-13288	Sequence 13288, A
763	17	1.6	50	18	US-09-401-063-1719	Sequence 1719, Ap	836	17	1.6	50	29	US-09-755-374A-17194	Sequence 17194, A
764	17	1.6	50	18	US-09-401-063-1729	Sequence 1729, Ap	837	17	1.6	50	29	US-09-755-374A-17196	Sequence 17196, A
765	17	1.6	50	18	US-09-401-063-1751	Sequence 1751, Ap	c 838	17	1.6	50	29	US-09-755-374A-20114	Sequence 20114, A
766	17	1.6	50	18	US-09-401-063-1754	Sequence 1754, Ap	c 839	17	1.6	50	29	US-09-755-374A-22482	Sequence 22482, A
767	17	1.6	50	18	US-09-401-063-1756	Sequence 1756, Ap	c 840	17	1.6	50	35	US-09-943-215-13	Sequence 13, Appl
c 768	17	1.6	50	18	US-09-442-849B-772	Sequence 772, App	c 841	17	1.6	50	53	US-60-147-499-12745	Sequence 12745, A
c 769	17	1.6	50	18	US-09-442-849B-774	Sequence 774, App	c 842	16.8	1.5	20	15	US-09-123-030-37	Sequence 37, Appl
c 770	17	1.6	50	18	US-09-443-199C-772	Sequence 772, App	c 843	16.8	1.5	22	33	US-09-877-843-66	Sequence 66, Appl
c 771	17	1.6	50	18	US-09-443-199C-774	Sequence 774, App	c 844	16.8	1.5	24	13	US-08-979-847-94	Sequence 94, Appl
772	17	1.6	50	18	US-09-504-231A-2919	Sequence 2919, Ap	c 845	16.8	1.5	24	13	US-08-979-847A-94	Sequence 94, Appl
773	17	1.6	50	19	US-09-504-231A-2922	Sequence 2922, Ap	c 846	16.8	1.5	25	9	US-08-592-610-388	Sequence 388, App
774	17	1.6	50	19	US-09-504-231A-2940	Sequence 2940, Ap	c 847	16.8	1.5	25	16	US-09-295-309A-388	Sequence 388, App
775	17	1.6	50	19	US-09-504-231A-2943	Sequence 2943, Ap	848	16.8	1.5	25	17	US-09-396-196F-101246	Sequence 101246,
776	17	1.6	50	19	US-09-504-231A-2968	Sequence 2968, Ap	c 849	16.8	1.5	25	17	US-09-396-196F-103061	Sequence 103061,
777	17	1.6	50	19	US-09-504-231A-2969	Sequence 2969, Ap	850	16.8	1.5	25	17	US-09-396-196F-121980	Sequence 121980,
778	17	1.6	50	19	US-09-504-231A-2973	Sequence 2973, Ap	851	16.8	1.5	25	35	US-09-954-427-101557	Sequence 101557,
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780	17	1.6	50	19	US-09-504-231A-3011	Sequence 3011, Ap	c 853	16.8	1.5	25	62	US-60-234-049-128366	Sequence 128366,
781	17	1.6	50	19	US-09-504-231A-3029	Sequence 3029, Ap	854	16.8	1.5	25	62	US-60-234-049-129521	Sequence 129521,
782	17	1.6	50	19	US-09-504-231A-3052	Sequence 3052, Ap	855	16.8	1.5	25	62	US-60-234-049-129522	Sequence 129522,
783	17	1.6	50	19	US-09-504-231A-3058	Sequence 3058, Ap	c 856	16.8	1.5	25	74	US-60-353-987-214515	Sequence 214515,
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785	17	1.6	50	19	US-09-504-231A-3071	Sequence 3071, Ap	c 858	16.8	1.5	25	74	US-60-353-987-356835	Sequence 356835,
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789	17	1.6	50	19	US-09-504-231A-3106	Sequence 3106, Ap	c 862	16.8	1.5	30	9	US-08-592-610-389	Sequence 389, App
790	17	1.6	50	19	US-09-504-231A-3122	Sequence 3122, Ap	c 863	16.8	1.5	30	16	US-09-295-309A-389	Sequence 389, App
791	17	1.6	50	19	US-09-519-917-293	Sequence 293, App	864	16.8	1.5	31	17	US-09-365-128-16	Sequence 16, Appl
792	17	1.6	50	19	US-09-519-917-301	Sequence 301, App	865	16.8	1.5	31	34	US-09-912-263-318	Sequence 318, App
793	17	1.6	50	19	US-09-519-917-304	Sequence 304, App	866	16.8	1.5	32	5	US-08-194-806-15	Sequence 15, Appl
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795	17	1.6	50	19	US-09-519-917-315	Sequence 315, App	c 868	16.8	1.5	36	1	PCT-US00-22121-9	Sequence 9, Appli
796	17	1.6	50	22	US-09-591-997-1150	Sequence 1150, Ap	c 869	16.8	1.5	36	17	US-09-374-721A-9	Sequence 9, Appli
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798	17	1.6	50	22	US-09-591-997-1160	Sequence 1160, Ap	c 871	16.8	1.5	37	32	US-09-848-754A-9456	Sequence 9456, Ap
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800	17	1.6	50	22	US-09-591-997-1580	Sequence 1580, Ap	c 873	16.8	1.5	37	34	US-09-927-046-3459	Sequence 3459, Ap
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802	17	1.6	50	23	US-09-611-931-2919	Sequence 2919, Ap	c 875	16.8	1.5	38	7	US-08-369-881-1359	Sequence 1359, Ap
803	17	1.6	50	23	US-09-611-931-2922	Sequence 2922, Ap	c 876	16.8	1.5	38	8	US-08-408-872-486	Sequence 486, App
804	17	1.6	50	23	US-09-611-931-2940	Sequence 2940, Ap	877	16.8	1.5	38	17	US-09-310-298-3350	Sequence 3350, Ap
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807	17	1.6	50	23	US-09-611-931-2969	Sequence 2969, Ap	880	16.8	1.5	38	17	US-09-371-772B-13981	Sequence 13981, A
808	17	1.6	50	23	US-09-611-931-2973	Sequence 2973, Ap	881	16.8	1.5	38	22	US-09-591-997-1390	Sequence 1390, Ap
809	17	1.6	50	23	US-09-611-931-2975	Sequence 2975, Ap	882	16.8	1.5	38	26	US-09-670-304A-1037	Sequence 1037, Ap
810	17	1.6	50	23	US-09-611-931-3011	Sequence 3011, Ap	883	16.8	1.5	38	26	US-09-670-304A-1314	Sequence 1314, Ap
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812	17	1.6	50	23	US-09-611-931-3052	Sequence 3052, Ap	885	16.8	1.5	38	28	US-09-708-690-16258	Sequence 16258, A
813	17	1.6	50	23	US-09-611-931-3058	Sequence 3058, Ap	c 886	16.8	1.5	38	30	US-09-780-533A-3204	Sequence 3204, Ap
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815	17	1.6	50	23	US-09-611-931-3071	Sequence 3071, Ap	888	16.8	1.5	38	33	US-09-870-161-15507	Sequence 15507, A
816	17	1.6	50	23	US-09-611-931-3074	Sequence 3074, Ap	889	16.8	1.5	38	33	US-09-870-161-16258	Sequence 16258, A
817	17	1.6	50	23	US-09-611-931-3094	Sequence 3094, Ap	890	16.8	1.5	38	37	US-10-017-974-17647	Sequence 17647, A
818	17	1.6	50	23	US-09-611-931-3102	Sequence 3102, Ap	891	16.8	1.5	38	37	US-10-017-974-18164	Sequence 18164, A
819	17	1.6	50	23	US-09-611-931-3106	Sequence 3106, Ap	c 892	16.8	1.5	38	37	US-10-017-974-29997	Sequence 29997, A
820	17	1.6	50	23	US-09-611-931-3122	Sequence 3122, Ap	c 893	16.8	1.5	38	37	US-10-017-974-30295	Sequence 30295, A
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827	17	1.6	50	26	US-09-670-607-4201	Sequence 4201, Ap	c 900	16.8	1.5	41	37	US-10-005-956-204	Sequence 204, App
828	17	1.6	50	26	US-09-670-607-4215	Sequence 4215, Ap	c 901	16.8	1.5	41	64	US-60-251-015-204	Sequence 204, App
829	17	1.6	50	26	US-09-670-607-4228	Sequence 4228, Ap	c 902	16.8	1.5	41	66	US-60-273-037-204	Sequence 204, App
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832	17	1.6	50	29	US-09-755-374A-5032	Sequence 5032, Ap	c 905	16.8	1.5	42	6	US-08-280-864-1	Sequence 1, Appli
c 833	17	1.6	50	29	US-09-755-374A-6019	Sequence 6019, Ap	c 906	16.8	1.5	42	14	US-09-092-671-1	Sequence 1, Appli
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; TITLE OF INVENTION: (Ptp-1b) Enzyme
; FILE REFERENCE: MBHB00-836-A (237/194)
; CURRENT APPLICATION NUMBER: US/09/670,607
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 4262
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4175
; LENGTH: 50
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-09-670-607-4175

Query Match      2.0%; Score 21.8; DB 26; Length 50;
Best Local Similarity 49.0%; Pred. No. 1.1e+05;
Matches 24; Conservative 8; Mismatches 17; Indels 0; Gaps 0;

QY 722 CAGCTGCCAAGCTAGCTACTGGAGCACATGTTGTTGGCAATGTGCTGGT 770
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Db 1 CAGCUGAGAAGCUGACCAGAGAAACACACGUGUGGUACAUUACCUUGGU 49

RESULT 3
PCT-US97-09289-13
; Sequence 13, Application PC/TUS9709289
; GENERAL INFORMATION:
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: TRANSGENIC ANIMALS EXPRESSING
; TITLE OF INVENTION: EPITOPE-TAGGED PROTEINS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 2200 Sand Hill Road, Suite 100
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA: PCT/US97/09289
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bozicevic, Karl
; REGISTRATION NUMBER: 28,807
; REFERENCE/DOCKET NUMBER: 06510/045W01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 322-5070
; TELEFAX: (415) 854-0875
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 42 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
PCT-US97-09289-13

Query Match      2.0%; Score 21.2; DB 1; Length 42;
Best Local Similarity 69.0%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 540 CCCATCTGCTCCTTGACCGCATTTGAGTGGAGGCCAACATCAAT 581
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RESULT 4
PCT-US97-09289-13

Query Match      2.0%; Score 21.2; DB 1; Length 42;
Best Local Similarity 69.0%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

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Db 1 CCCTCCAGGCTTTGGCCGCTTCTTCGAGAGGCCCTACATCAGT 42
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US-09-669-516B-13
; Sequence 13, Application US/09669516B
; GENERAL INFORMATION:
; APPLICANT: Prusiner, Stanley B.
; APPLICANT: Telling, Glenn C.
; APPLICANT: Cohen, Fred E.
; APPLICANT: Scott, Michael R.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCT ENCODING EPITOPE
; TITLE OF INVENTION: TAGGED PrP PROTEIN
; FILE REFERENCE: 06510045CON
; CURRENT APPLICATION NUMBER: US/09/669,516B
; CURRENT FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: 09/031,168
; PRIOR FILING DATE: 1998-02-26
; PRIOR APPLICATION NUMBER: 08/660,626
; PRIOR FILING DATE: 1996-06-06
; PRIOR APPLICATION NUMBER: 08/521,992
; PRIOR FILING DATE: 1995-08-31
; PRIOR APPLICATION NUMBER: 08/509,261
; PRIOR FILING DATE: 1995-07-31
; PRIOR APPLICATION NUMBER: 08/242,188
; PRIOR FILING DATE: 1994-05-13
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 42
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthesized oligonucleotide
US-09-669-516B-13

Query Match      2.0%; Score 21.2; DB 26; Length 42;
Best Local Similarity 69.0%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

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Db 1 CCCTCCAGGCTTTGGCCGCTTCTTCGAGAGGCCCTACATCAGT 42

RESULT 5
US-09-755-374A-13826/c
; Sequence 13826, Application US/09755374A
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and M
; TITLE OF INVENTION: Use Thereof
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; CURRENT FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 13826
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (13825 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg43273197
US-09-755-374A-13826

Query Match      1.9%; Score 20.8; DB 29; Length 50;
Best Local Similarity 78.1%; Pred. No. 2.2e+05;
```


; TITLE OF INVENTION: Nucleic Acids Containing Single Nucleotide Polymorphisms and Meth
; TITLE OF INVENTION: Use Thereof
; FILE REFERENCE: 15966-611
; CURRENT APPLICATION NUMBER: US/09/755,374A
; CURRENT FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/174962
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 28742
; SEQ ID NO 11830
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (26)...(0)
; OTHER INFORMATION: 2 of 2 allelic variants (11829 is other entry)
; NAME/KEY: misc_feature
; LOCATION: (25)...(26)
; OTHER INFORMATION: Nucleotide deleted between bases 25 and 26
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg43917538
US-09-755-374A-11830

Query Match 1.8%; Score 20; DB 29; Length 50;
Best Local Similarity 65.9%; Pred. No. 3.8e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 231 CTCACAAGAGACTGAGCCCTTAGGAACCGCTGGCCCTCTTGCTC 274
||| | ||| | | | ||| | ||| ||| ||| ||| |||
Db 1 CTCAGACGAGAGTTGGCCCTAGGCACGGCTGCCCTGTAGCTC 44

RESULT 13
US-60-087-422-57/c
; Sequence 57, Application US/60087422
; GENERAL INFORMATION:
; APPLICANT: Nordine Cheikh
; APPLICANT: Jonathan M. Shaver
; APPLICANT: Jingdong Liu
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules
; TITLE OF INVENTION: Associated with the Starch Pathway
; NUMBER OF SEQUENCES: 534
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lawrence M. Lavin, Jr.
; STREET: BB4F
; STREET: Monsanto Company
; STREET: 700 Chesterfield Parkway North
; CITY: St. Louis
; STATE: MO
; COUNTRY: United States
; ZIP: 63198
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette (3.5in, 1.44 Mb)
; COMPUTER: IBM PC/XT/AT, IBM PS/2 or compatibles
; OPERATING SYSTEM: Windows 95/NT
; SOFTWARE:
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/60/087,422
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavin Jr., Lawrence M.
; REGISTRATION NUMBER: 30,768
; REFERENCE/DOCKET NUMBER: 04983.0029/38-21(15364)A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 737-6670
; TELEFAX: (314) 737-6047
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Zea mays
; DEVELOPMENTAL STAGE: endosperm, 22 DAP
; TISSUE TYPE: seed
; IMMEDIATE SOURCE:
; LIBRARY: SATMON036
; CLONE: 700799976
US-60-087-422-57
Query Match 1.8%; Score 20; DB 47; Length 50;
Best Local Similarity 64.4%; Pred. No. 3.8e+05;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 710 TTAGGAAGAAATCAGCTGCCAAGCTAGCTACTGGAGCACATGTTG 754
|| ||| || ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 47 TTGGGAGGATNTCAGATCCAAAGTCATGTATGTAGTATATTTTG 3
RESULT 14
US-60-090-170-1486/c
; Sequence 1486, Application US/60090170
; GENERAL INFORMATION:
; APPLICANT: Devlina Lahiri
; APPLICANT: Chen Mu-Forster
; APPLICANT: Jingdong Liu
; TITLE OF INVENTION: Nucleic acid molecules and other molecules
; TITLE OF INVENTION: associated with the Complex Carbohydrate synthesis and
; TITLE OF INVENTION: Degradation Pathways
; NUMBER OF SEQUENCES: 1555
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lawrence M. Lavin, Jr.
; STREET: BB4F
; STREET: Monsanto Company
; STREET: 700 Chesterfield Parkway North
; CITY: St. Louis
; STATE: MO
; COUNTRY: United States
; ZIP: 63198
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette (3.5in, 1.44 Mb)
; COMPUTER: IBM PC/XT/AT, IBM PS/2 or compatibles
; OPERATING SYSTEM: Windows 95/NT
; SOFTWARE: Winzip 6.3
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/60/090,170
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavin Jr., Lawrence M.
; REGISTRATION NUMBER: 30,768
; REFERENCE/DOCKET NUMBER: 04983.0021/38-21(15425)A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314) 737-6670
; TELEFAX: (314) 737-6047
; INFORMATION FOR SEQ ID NO: 1486:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Zea mays
; DEVELOPMENTAL STAGE: endosperm, 22 DAP
; TISSUE TYPE: seed
; IMMEDIATE SOURCE:
; LIBRARY: SATMON036

CLONE: 700799976
US-60-090-170-1486

```
Query Match      1.8%; Score 20; DB 48; Length 50;
Best Local Similarity 64.4%; Pred. No. 3.8e+05;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

Qy 710 TTAGGAAGAAATCAGCTGCCAGCTAGCTACTGGAGCACATGTTG 754
 || ||| || |||| | ||| | || | ||| ||| ||| |||
 Db 47 TTGGGAGGATNTCAGATCCAAAGTCATGTAATTGAGTATATTTTG 3

```

RESULT 15
US-10-017-870-8/c
; Sequence 8, Application US/10017870
; GENERAL INFORMATION:
; APPLICANT: HUANG, DOUG HUI
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TIGR GENOTYPING ASSAYS
; FILE REFERENCE: 034827-1401
; CURRENT APPLICATION NUMBER: US/10/017,870
; CURRENT FILING DATE: 2001-12-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-10-017-870-8

```

```
Query Match      1.8%; Score 19.8; DB 37; Length 40;
Best Local Similarity 77.4%; Pred. NO. 4e+05;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

Qy 230 GCTCCCAAGAGACTGAGCCCTTAGGAACCGC 260
| | | | |
Db 31 GTTCCCCAGATACTGACCCCTTTGGGACCCGC 1

```

RESULT 16
US-09-422-978-1826/c
; Sequence 1826, Application US/09422978
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 1826
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 99-6675-324 : polymorphic base A or G
US-09-422-978-1826

```

Query Match . 1.8%; Score 19.8; DB 18; Length 47;
Best Local Similarity 72.7%; Pred. NO. 4.3e+05;
Matches 24; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 712 AGGAAGAAATCAGCTGCCAAGCTAGCTACTGGA 744

db 41 AGTAAGAAATACATCTGAYGAAATAGCTACTGGA 9

```

RESULT 17
US-09-310-298-5598/c
; Sequence 5598, Application US/09310298
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: PRIMER SEQUENCES FOR SINGLE NUCLEOTIDE
; TITLE OF INVENTION: POLYMORPHISMS
; FILE REFERENCE: WHIFG98-07pa
; CURRENT APPLICATION NUMBER: US/09/310,298
; CURRENT FILING DATE: 1998-05-12
; EARLIER APPLICATION NUMBER: 60/085,152
; EARLIER FILING DATE: 1998-05-12
; NUMBER OF SEQ ID NOS: 5968
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5598
;   LENGTH: 48
;   TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
;   OTHER INFORMATION: Oligonucleotide primer
US-09-310-298-5598

```

Query Match 1.8%; Score 19.8; DB 17; Length 48;
Best Local Similarity 69.2%; Pred. No. 4.3e+05;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 149 TTTTGGCTATCAACTATCGCCAGAGGTAATGATTAATT 187

Db 39 TTTGGTCTATCAAGTCTCTCCCTTTAGTGAGGGTTAATT 1

```

RESULT 18
US-09-310-298A-5598/c
; Sequence 5598, Application US/09310298A
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: PRIMER SEQUENCES FOR SINGLE NUCLEOTIDE
; TITLE OF INVENTION: POLYMORPHISMS
; FILE REFERENCE: 2825.1007-001
; CURRENT APPLICATION NUMBER: US/09/310,298A
; CURRENT FILING DATE: 1999-05-12
; PRIOR APPLICATION NUMBER: US 60/085,152
; PRIOR FILING DATE: 1998-05-12
; NUMBER OF SEQ ID NOS: 5970
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5598
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide primer
US-09-310-298A-5598

```

Query Match	1.8;	Score 19.8;	DB 17;	Length 48;
Best Local Similarity	69.2;	Pred. No. 4.3e+05;		
Matches 27; Conservative	0;	Mismatches 12;	Indels 0;	Gaps 0;

Qy 149 TTTTGGCTATCAACTATCGCCACAGGTAATGATTAAAT 187
 ||| | ||||| | | ||| | | | |||||
 Db 39 TTTGGTCTATCAAGTCTCTCCCTTAGTGAGGGTTAAAT 1

RESULT 19
US-60-108-395-1608/c
; Sequence 1608, Application US/60108395
; GENERAL INFORMATION:
; APPLICANT: Stuve Laura L.

; APPLICANT: Goralski, Thomas J.
; APPLICANT: Garrow,Bonnie L.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM RAT JEJUNUM
; FILE REFERENCE: P2-0098 P
; CURRENT APPLICATION NUMBER: US/60/108,395
; CURRENT FILING DATE: 1998-11-12
; NUMBER OF SEQ ID NOS: 2989
; SOFTWARE: PERL Program
; SEQ ID NO 1608
; LENGTH: 49
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 5, 21, 27, 30, 42
; OTHER INFORMATION: a or g or c or t, unknown, or other
; FEATURE: -
; OTHER INFORMATION: 700965477H1
US-60-108-395-1608

Query Match 1.8%; Score 19.8; DB 49; Length 49;
Best Local Similarity 62.8%; Pred. No. 4.4e+05;
Matches 27; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 848 ACGGCGTGAGGCTTCCCGCTGCACCTGTCACTGTCATGCGCGGGCTGCG 890
Db 48 ACCCGNGATGCTGTCGCNCTNCACCTNCTCCCGGGGCTGCG 6

RESULT 20
PCT-US01-47856-4009
; Sequence 4009, Application PC/TUS0147856
; GENERAL INFORMATION:
; APPLICANT: BIOCARDIA, INC.
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Quertermous, Thomas
; APPLICANT: Johnson, Frances
; APPLICANT: Fry, Kirk
; APPLICANT: Matcuk, George
; APPLICANT: Prentice, James
; APPLICANT: Phillips, Julie
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Altman, Peter
; TITLE OF INVENTION: LEUKOCYTE EXPRESSION PROFILING
; FILE REFERENCE: 506612000140
; CURRENT APPLICATION NUMBER: PCT/US01/47856
; CURRENT FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/241,994
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 8832
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4009
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-47856-4009

Query Match 1.8%; Score 19.8; DB 1; Length 50;
Best Local Similarity 69.2%; Pred. No. 4.4e+05;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 804 GATTGGTCCTGATGCGCCATTGGACCTGGGTGTGTGT 842
Db 7 GTTTTCTGTTCTGCTCTTTGGACCTGTGTGTGT 45

RESULT 21
PCT-US01-47856-4982
; Sequence 4982, Application PC/TUS0147856
; GENERAL INFORMATION:

; APPLICANT: BIOCARDIA, INC.
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Quertermous, Thomas
; APPLICANT: Johnson, Frances
; APPLICANT: Fry, Kirk
; APPLICANT: Matcuk, George
; APPLICANT: Prentice, James
; APPLICANT: Phillips, Julie
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Altman, Peter
; TITLE OF INVENTION: LEUKOCYTE EXPRESSION PROFILING
; FILE REFERENCE: 506612000140
; CURRENT APPLICATION NUMBER: PCT/US01/47856
; CURRENT FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/241,994
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 8832
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4982
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-47856-4982

Query Match 1.8%; Score 19.8; DB 1; Length 50;
Best Local Similarity 69.2%; Pred. No. 4.4e+05;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 804 GATTGGTCCTGATGTCGCCATTGGACCTGGGTGTGTGT 842
Db 7 GTTTTCTGTTCTGCTCTTTGGACCTGTGTGTGT 45

RESULT 22
US-09-470-988-61
; Sequence 61, Application US/09470988
; GENERAL INFORMATION:
; APPLICANT: Schulze-Lefert, Paul MJ
; APPLICANT: Shirasu, Ken
; APPLICANT: Lahaye, Thomas
; TITLE OF INVENTION: A plant disease resistance signalling gene: materials
; FILE REFERENCE: 620-89
; CURRENT APPLICATION NUMBER: US/09/470,988
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: PCT/GB99/02590
; PRIOR FILING DATE: 1999-08-06
; PRIOR APPLICATION NUMBER: GB 9817169.7
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 61
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-470-988-61

Query Match 1.8%; Score 19.6; DB 18; Length 27;
Best Local Similarity 84.6%; Pred. No. 3.8e+05;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 263 GCCCTCTTGCTCTACCAAGGGACAAG 288
Db 2 GCCTTCTTGATCTAGCAAGAGACAG 27

RESULT 23
US-08-483-033-3/c

```
; Sequence 3, Application US/08483033
; GENERAL INFORMATION:
; APPLICANT: Yoon, Ji-Won
; APPLICANT: Liang, Hsueh-Chia
; APPLICANT: Jun, Hee-Sook
; APPLICANT: Moon, Hong M.
; TITLE OF INVENTION: DIAGNOSIS OF PRE-IDD
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LOWE, PRICE, LEBLANC & BECKER
; STREET: 99 Canal Center Plaza, Suite 300
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22314
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,033
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Kozlowski, Holly D.
; REGISTRATION NUMBER: 30468
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-684-1111
; TELEFAX: 703-684-1124/1145
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 48 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-483-033-3

Query Match 1.8%; Score 19.6; DB 8; Length 48;
Best Local Similarity 73.5%; Pred. No. 5e+05;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 763 GTGCTGGTCATGAGAGCGCCCAAGATTGGAGAAG 796
|| |||| | | |||| |||| |||| |||| |||| ||
Db 48 GTACTGGAGGACCAGAGTGCCTAGACTTGAGAAG 15

RESULT 24
US-08-791-173-2176
; Sequence 2176, Application US/08791173
; GENERAL INFORMATION:
; APPLICANT: Stuart, Susan G.
; APPLICANT: Gooding, Douglas H.
; APPLICANT: Lane, John C.
; APPLICANT: Delegeane, Angelo M.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM
; TITLE OF INVENTION: BRAIN TUMOR
; NUMBER OF SEQUENCES: 2902
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
```

```
; APPLICATION NUMBER: US/08/791,173
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/011,001
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LUTHER, BARBARA J.
; REGISTRATION NUMBER: 33954
; REFERENCE/DOCKET NUMBER: PD 0104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 855-0555
; TELEFAX: (415) 852-0195
; INFORMATION FOR SEQ ID NO: 2176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; IMMEDIATE SOURCE:
; CLONE: 751264
; US-08-791-173-2176

Query Match 1.8%; Score 19.6; DB 11; Length 49;
Best Local Similarity 66.7%; Pred. No. 5e+05;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 437 GTGTTGTGTTATGGAGGAGGCACTGCGAGGGTGGAAAGGT 478
|||| ||| |||| || | || | || |||| |||
Db 8 GTGTTCTGCGGTGGAAGATGGGACAGAGGATGGGAGGGT 49

RESULT 25
US-60-011-001-2176
; Sequence 2176, Application US/60011001
; GENERAL INFORMATION:
; APPLICANT: Stuart, Susan G.
; APPLICANT: Gooding, Douglas H.
; APPLICANT: Lane, John C.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Snable, James I.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM
; TITLE OF INVENTION: BRAIN TUMOR
; NUMBER OF SEQUENCES: 2902
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/60/011,001
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: LUTHER, BARBARA J.
; REGISTRATION NUMBER: 33954
; REFERENCE/DOCKET NUMBER: PD 0104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 855-0555
; TELEFAX: (415) 852-0195
; INFORMATION FOR SEQ ID NO: 2176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
```

; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; IMMEDIATE SOURCE:
; CLONE: 751264
US-60-011-001-2176

Query Match 1.8%; Score 19.6; DB 40; Length 49;
Best Local Similarity 66.7%; Pred. No. 5e+05;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 437 GTGTTGTGGTTATGGAGGAGGCAACTGGCAGGGTGGAAAGGT 478
||||| ||| |||| || | || | || |||| ||||
Db 8 GTGTTCTGGCGGTGGAGATGGGACAGAGAGGATGGGAGGGT 49

Search completed: October 22, 2002, 18:53:53
Job time : 2683 secs

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OM nucleic - nucleic search, using sw model

Run on: October 22, 2002, 15:48:31 ; Search time 342 Seconds
(without alignments)
11049.081 Million cell updates/sec

Title: US-09-374-967-1
Perfect score: 1086
Sequence: 1 atgaagccctcattcttgt.....agcctgagatcgctcatgtga 1086

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2682990 seqs, 1739772391 residues 1355638
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 20
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Pending_Patents_NA_New:*
1: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*
2: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*
3: /cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq:*
4: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
5: /cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq:*
6: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
7: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq2:*
8: /cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq:*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	21.8	2.0	50	US-10-131-831-2668	Sequence 2668, Ap
2	21.8	2.0	50	US-10-131-827-2668	Sequence 2668, Ap
C 3	20.2	1.9	50	US-10-131-831-5838	Sequence 5838, Ap
C 4	20.2	1.9	50	US-10-131-827-5838	Sequence 5838, Ap
5	19.8	1.8	50	US-10-131-831-4009	Sequence 4009, Ap
6	19.8	1.8	50	US-10-131-831-4982	Sequence 4982, Ap
7	19.8	1.8	50	US-10-131-827-4009	Sequence 4009, Ap
8	19.8	1.8	50	US-10-131-827-4982	Sequence 4982, Ap
C 9	19.4	1.8	41	US-10-053-853A-1822	Sequence 1822, Ap
C 10	19.4	1.8	50	US-10-131-831-5239	Sequence 5239, Ap
C 11	19.4	1.8	50	US-10-131-831-5239	Sequence 5239, Ap
12	19.2	1.8	50	US-09-504-231B-3044	Sequence 3044, Ap
13	19.2	1.8	50	US-09-274-553D-3044	Sequence 3044, Ap
14	19.2	1.8	50	US-09-611-931A-3044	Sequence 3044, Ap
15	19.2	1.8	50	US-10-131-831-860	Sequence 860, App
16	19.2	1.8	50	US-10-131-831-1222	Sequence 1222, Ap
17	19.2	1.8	50	US-10-131-831-3438	Sequence 3438, Ap
18	19.2	1.8	50	US-10-131-831-4105	Sequence 4105, Ap
19	19.2	1.8	50	US-10-131-827-860	Sequence 860, App
20	19.2	1.8	50	US-10-131-827-1222	Sequence 1222, Ap
21	19.2	1.8	50	US-10-131-827-3438	Sequence 3438, Ap
22	19.2	1.8	50	US-10-131-827-4105	Sequence 4105, Ap
C 23	19	1.7	40	US-09-963-827B-86	Sequence 86, Appl
C 24	19	1.7	50	US-10-131-831-3756	Sequence 3756, Ap
25	19	1.7	50	US-10-131-831-4621	Sequence 4621, Ap

C	26	19	1.7	50	6	US-10-131-827-3756	Sequence 3756, Ap
	27	19	1.7	50	5	US-10-131-827-4621	Sequence 4621, Ap
	28	18.8	1.7	50	6	US-09-964-201A-8	Sequence 8, Appli
	29	18.8	1.7	50	6	US-10-131-831-574	Sequence 574, App
C	30	18.8	1.7	50	6	US-10-131-831-2523	Sequence 2523, Ap
	31	18.8	1.7	50	6	US-10-131-831-6107	Sequence 6107, Ap
	32	18.8	1.7	50	6	US-10-131-827-574	Sequence 574, App
C	33	18.8	1.7	50	6	US-10-131-827-2523	Sequence 2523, Ap
	34	18.8	1.7	50	6	US-10-131-827-6107	Sequence 6107, Ap
C	35	18.6	1.7	31	1	PCT-US02-25943-30495	Sequence 30495, A
C	36	18.6	1.7	31	6	US-10-227-565-30495	Sequence 30495, A
	37	18.6	1.7	45	6	US-10-238-129-14	Sequence 14, Appl
	38	18.6	1.7	45	6	US-10-238-667-14	Sequence 14, Appl
C	39	18.6	1.7	47	7	US-10-170-097-1169	Sequence 1169, Ap
C	40	18.6	1.7	47	7	US-10-170-097-1236	Sequence 1236, Ap
	41	18.6	1.7	50	6	US-10-131-831-2977	Sequence 2977, Ap
C	42	18.6	1.7	50	6	US-10-131-831-6736	Sequence 6736, Ap
	43	18.6	1.7	50	6	US-10-131-831-7126	Sequence 7126, Ap
C	44	18.6	1.7	50	6	US-10-131-831-7420	Sequence 7420, Ap
	45	18.6	1.7	50	6	US-10-131-831-7499	Sequence 7499, Ap
	46	18.6	1.7	50	6	US-10-131-827-2977	Sequence 2977, Ap
C	47	18.6	1.7	50	6	US-10-131-827-6736	Sequence 6736, Ap
	48	18.6	1.7	50	6	US-10-131-827-7126	Sequence 7126, Ap
C	49	18.6	1.7	50	6	US-10-131-827-7420	Sequence 7420, Ap
	50	18.6	1.7	50	6	US-10-131-827-7499	Sequence 7499, Ap
	51	18.4	1.7	38	7	US-10-138-674-9550	Sequence 9550, Ap
C	52	18.4	1.7	50	1	PCT-US02-25940-11472	Sequence 11472, A
C	53	18.4	1.7	50	6	US-10-131-831-461	Sequence 461, App
	54	18.4	1.7	50	6	US-10-131-831-3574	Sequence 3574, Ap
C	55	18.4	1.7	50	6	US-10-131-831-5923	Sequence 5923, Ap
	56	18.4	1.7	50	6	US-10-131-831-8002	Sequence 8002, Ap
C	57	18.4	1.7	50	6	US-10-131-827-461	Sequence 461, App
	58	18.4	1.7	50	6	US-10-131-827-3574	Sequence 3574, Ap
C	59	18.4	1.7	50	6	US-10-131-827-5923	Sequence 5923, Ap
	60	18.4	1.7	50	6	US-10-131-827-8002	Sequence 8002, Ap
C	61	18.4	1.7	50	6	US-10-227-563-11472	Sequence 11472, A
	62	18.2	1.7	47	5	US-09-638-202-29	Sequence 29, Appl
	63	18.2	1.7	47	5	US-09-638-202A-29	Sequence 29, Appl
	64	18.2	1.7	47	6	US-10-190-162-29	Sequence 29, Appl
	65	18.2	1.7	47	6	US-10-165-155-29	Sequence 29, Appl
	66	18.2	1.7	50	5	US-09-504-231B-3091	Sequence 3091, Ap
	67	18.2	1.7	50	5	US-09-274-553D-3091	Sequence 3091, Ap
	68	18.2	1.7	50	5	US-09-718-321A-113	Sequence 113, App
	69	18.2	1.7	50	5	US-09-611-931A-3091	Sequence 3091, Ap
	70	18.2	1.7	50	6	US-10-131-831-667	Sequence 667, App
	71	18.2	1.7	50	6	US-10-131-827-667	Sequence 667, App
C	72	18	1.7	34	7	US-10-164-204-4	Sequence 4, Appli
C	73	18	1.7	42	6	US-10-223-978-27	Sequence 27, Appl
	74	18	1.7	48	5	US-09-871-225A-22	Sequence 22, Appl
C	75	18	1.7	50	5	US-09-863-733A-5	Sequence 5, Appli
C	76	18	1.7	50	5	US-09-863-733A-7	Sequence 7, Appli
	77	18	1.7	50	5	US-09-863-733A-26	Sequence 26, Appl
C	78	18	1.7	50	5	US-09-863-733A-27	Sequence 27, Appl
	79	18	1.7	50	5	US-09-863-733A-31	Sequence 31, Appl
C	80	18	1.7	50	5	US-09-863-733A-32	Sequence 32, Appl
C	81	18	1.7	50	6	US-10-116-420-5	Sequence 5, Appli
C	82	18	1.7	50	6	US-10-116-420-7	Sequence 7, Appli
C	83	18	1.7	50	6	US-10-116-420-26	Sequence 26, Appl
C	84	18	1.7	50	6	US-10-116-420-27	Sequence 27, Appl
	85	18	1.7	50	6	US-10-116-420-31	Sequence 31, Appl
C	86	18	1.7	50	6	US-10-116-420-32	Sequence 32, Appl
C	87	18	1.7	50	6	US-10-131-831-896	Sequence 896, App
	88	18	1.7	50	6	US-10-131-831-1774	Sequence 1774, Ap
	89	18	1.7	50	6	US-10-131-831-7271	Sequence 7271, Ap
C	90	18	1.7	50	6	US-10-131-827-896	Sequence 896, App
	91	18	1.7	50	6	US-10-131-827-1774	Sequence 1774, Ap
	92	18	1.7	50	6	US-10-131-827-7271	Sequence 7271, Ap
C	93	17.8	1.6	31	7	US-10-156-306-3301	Sequence 3301, Ap
	94	17.8	1.6	37	1	PCT-US02-25941-2243	Sequence 2243, Ap
C	95	17.8	1.6	39	1	PCT-US02-25941-2244	Sequence 2244, Ap
	96	17.8	1.6	50	5	US-09-504-231B-3028	Sequence 3028, Ap
C	97	17.8	1.6	50	5	US-09-504-231B-3035	Sequence 3035, Ap
	98	17.8	1.6	50	5	US-09-274-553D-3028	Sequence 3028, Ap

99	17.8	1.6	50	5	US-09-274-553D-3035	Sequence 3035, Ap	172	17.2	1.6	50	5	US-09-504-231B-3003	Sequence 3003, Ap
100	17.8	1.6	50	5	US-09-611-931A-3028	Sequence 3028, Ap	173	17.2	1.6	50	5	US-09-504-231B-3031	Sequence 3031, Ap
101	17.8	1.6	50	5	US-09-611-931A-3035	Sequence 3035, Ap	174	17.2	1.6	50	5	US-09-274-553D-2916	Sequence 2916, Ap
c 102	17.8	1.6	50	6	US-10-131-831-771	Sequence 771, App	175	17.2	1.6	50	5	US-09-274-553D-2966	Sequence 2966, Ap
c 103	17.8	1.6	50	6	US-10-131-831-4651	Sequence 4651, Ap	176	17.2	1.6	50	5	US-09-274-553D-3003	Sequence 3003, Ap
104	17.8	1.6	50	6	US-10-131-831-4725	Sequence 4725, Ap	177	17.2	1.6	50	5	US-09-274-553D-3031	Sequence 3031, Ap
c 105	17.8	1.6	50	6	US-10-131-831-7390	Sequence 7390, Ap	178	17.2	1.6	50	5	US-09-611-931A-2916	Sequence 2916, Ap
106	17.8	1.6	50	6	US-10-131-831-8016	Sequence 8016, Ap	179	17.2	1.6	50	5	US-09-611-931A-2966	Sequence 2966, Ap
c 107	17.8	1.6	50	6	US-10-131-827-771	Sequence 771, App	180	17.2	1.6	50	5	US-09-611-931A-3003	Sequence 3003, Ap
c 108	17.8	1.6	50	6	US-10-131-827-4651	Sequence 4651, Ap	181	17.2	1.6	50	5	US-09-611-931A-3031	Sequence 3031, Ap
109	17.8	1.6	50	6	US-10-131-827-4725	Sequence 4725, Ap	182	17.2	1.6	50	6	US-10-131-831-485	Sequence 485, App
c 110	17.8	1.6	50	6	US-10-131-827-7390	Sequence 7390, Ap	c 183	17.2	1.6	50	6	US-10-131-831-758	Sequence 758, App
111	17.8	1.6	50	6	US-10-131-827-8016	Sequence 8016, Ap	c 184	17.2	1.6	50	6	US-10-131-831-782	Sequence 782, App
112	17.6	1.6	25	5	US-09-396-196G-44038	Sequence 44038, A	c 185	17.2	1.6	50	6	US-10-131-831-2328	Sequence 2328, Ap
113	17.6	1.6	25	5	US-09-396-196G-49441	Sequence 49441, A	c 186	17.2	1.6	50	6	US-10-131-831-5189	Sequence 5189, Ap
114	17.6	1.6	25	5	US-09-396-196G-49442	Sequence 49442, A	c 187	17.2	1.6	50	6	US-10-131-831-5279	Sequence 5279, Ap
115	17.6	1.6	30	6	US-10-085-906-17	Sequence 17, Appl	c 188	17.2	1.6	50	6	US-10-131-831-6276	Sequence 6276, Ap
116	17.6	1.6	44	1	PCT-US02-25942-5207	Sequence 5207, Ap	c 189	17.2	1.6	50	6	US-10-131-831-6511	Sequence 6511, Ap
117	17.6	1.6	44	6	US-10-227-567-5207	Sequence 5207, Ap	190	17.2	1.6	50	6	US-10-131-831-6901	Sequence 6901, Ap
118	17.6	1.6	47	1	PCT-US02-25943-17805	Sequence 17805, A	191	17.2	1.6	50	6	US-10-131-831-7216	Sequence 7216, Ap
119	17.6	1.6	47	6	US-10-227-565-17805	Sequence 17805, A	192	17.2	1.6	50	6	US-10-131-831-7238	Sequence 7238, Ap
120	17.6	1.6	47	7	US-10-170-097-1010	Sequence 1010, Ap	193	17.2	1.6	50	6	US-10-131-827-485	Sequence 485, App
121	17.6	1.6	50	6	US-10-131-831-5276	Sequence 5276, Ap	c 194	17.2	1.6	50	6	US-10-131-827-758	Sequence 758, App
122	17.6	1.6	50	6	US-10-131-827-5276	Sequence 5276, Ap	c 195	17.2	1.6	50	6	US-10-131-827-782	Sequence 782, App
123	17.4	1.6	38	5	US-09-745-237A-1861	Sequence 1861, Ap	c 196	17.2	1.6	50	6	US-10-131-827-2328	Sequence 2328, Ap
124	17.4	1.6	38	7	US-10-138-674-13813	Sequence 13813, A	c 197	17.2	1.6	50	6	US-10-131-827-5189	Sequence 5189, Ap
c 125	17.4	1.6	38	7	US-10-138-674-14787	Sequence 14787, A	198	17.2	1.6	50	6	US-10-131-827-5279	Sequence 5279, Ap
126	17.4	1.6	38	7	US-10-138-674-15673	Sequence 15673, A	c 199	17.2	1.6	50	6	US-10-131-827-6276	Sequence 6276, Ap
127	17.4	1.6	41	7	US-10-043-573-75	Sequence 75, Appl	c 200	17.2	1.6	50	6	US-10-131-827-6511	Sequence 6511, Ap
128	17.4	1.6	45	5	US-09-863-733A-15	Sequence 15, Appl	201	17.2	1.6	50	6	US-10-131-827-6901	Sequence 6901, Ap
129	17.4	1.6	45	6	US-10-116-420-15	Sequence 15, Appl	202	17.2	1.6	50	6	US-10-131-827-7216	Sequence 7216, Ap
c 130	17.4	1.6	50	6	US-10-131-831-2675	Sequence 2675, Ap	203	17.2	1.6	50	6	US-10-131-827-7238	Sequence 7238, Ap
c 131	17.4	1.6	50	6	US-10-131-831-2868	Sequence 2868, Ap	c 204	17	1.6	25	5	US-09-956-604-48761	Sequence 48761, A
132	17.4	1.6	50	6	US-10-131-831-5146	Sequence 5146, Ap	205	17	1.6	25	5	US-09-956-604-112993	Sequence 112993, A
133	17.4	1.6	50	6	US-10-131-831-5471	Sequence 5471, Ap	c 206	17	1.6	25	5	US-09-396-196G-2895	Sequence 2895, Ap
134	17.4	1.6	50	6	US-10-131-831-6541	Sequence 6541, Ap	c 207	17	1.6	25	5	US-09-396-196G-53686	Sequence 53686, A
c 135	17.4	1.6	50	6	US-10-131-831-6931	Sequence 6931, Ap	208	17	1.6	25	5	US-09-396-196G-59982	Sequence 59982, A
c 136	17.4	1.6	50	6	US-10-131-831-7764	Sequence 7764, Ap	209	17	1.6	25	5	US-09-396-196G-90399	Sequence 90399, A
c 137	17.4	1.6	50	6	US-10-131-827-2675	Sequence 2675, Ap	c 210	17	1.6	25	5	US-09-956-604A-48761	Sequence 48761, A
c 138	17.4	1.6	50	6	US-10-131-827-2868	Sequence 2868, Ap	211	17	1.6	25	5	US-09-956-604A-112993	Sequence 112993, A
139	17.4	1.6	50	6	US-10-131-827-5146	Sequence 5146, Ap	c 212	17	1.6	25	6	US-10-215-112-2811	Sequence 2811, Ap
140	17.4	1.6	50	6	US-10-131-827-5471	Sequence 5471, Ap	213	17	1.6	36	1	PCT-US02-25943-56092	Sequence 56092, A
141	17.4	1.6	50	6	US-10-131-827-6541	Sequence 6541, Ap	214	17	1.6	36	5	US-09-504-231B-2426	Sequence 2426, Ap
c 142	17.4	1.6	50	6	US-10-131-827-6931	Sequence 6931, Ap	215	17	1.6	36	5	US-09-274-553D-2426	Sequence 2426, Ap
c 143	17.4	1.6	50	6	US-10-131-827-7764	Sequence 7764, Ap	216	17	1.6	36	5	US-09-611-931A-2426	Sequence 2426, Ap
144	17.2	1.6	25	5	US-09-956-604-27610	Sequence 27610, A	217	17	1.6	36	6	US-10-227-565-56092	Sequence 56092, A
145	17.2	1.6	25	5	US-09-956-604-27613	Sequence 27613, A	218	17	1.6	38	7	US-10-138-674-9579	Sequence 9579, Ap
146	17.2	1.6	25	5	US-09-956-604-27618	Sequence 27618, A	c 219	17	1.6	38	8	US-60-384-980-493	Sequence 493, App
147	17.2	1.6	25	5	US-09-396-196G-46364	Sequence 46364, A	c 220	17	1.6	38	8	US-60-384-980-494	Sequence 494, App
148	17.2	1.6	25	5	US-09-396-196G-53445	Sequence 53445, A	c 221	17	1.6	38	8	US-60-384-980-495	Sequence 495, App
149	17.2	1.6	25	5	US-09-956-604A-27610	Sequence 27610, A	c 222	17	1.6	38	8	US-60-384-980-496	Sequence 496, App
150	17.2	1.6	25	5	US-09-956-604A-27613	Sequence 27613, A	c 223	17	1.6	41	1	PCT-US02-25941-1701	Sequence 1701, Ap
151	17.2	1.6	25	5	US-09-956-604A-27618	Sequence 27618, A	c 224	17	1.6	42	6	US-10-223-978-26	Sequence 26, Appl
152	17.2	1.6	27	1	PCT-US02-25943-30496	Sequence 30496, A	c 225	17	1.6	44	5	US-09-139-031E-7	Sequence 7, Appl
153	17.2	1.6	27	6	US-10-227-565-30496	Sequence 30496, A	226	17	1.6	50	5	US-09-504-231B-2919	Sequence 2919, Ap
c 154	17.2	1.6	34	5	US-09-503-138B-86	Sequence 86, Appl	227	17	1.6	50	5	US-09-504-231B-2922	Sequence 2922, Ap
c 155	17.2	1.6	34	5	US-09-503-138B-89	Sequence 89, Appl	228	17	1.6	50	5	US-09-504-231B-2940	Sequence 2940, Ap
c 156	17.2	1.6	34	7	US-10-150-407-86	Sequence 86, Appl	229	17	1.6	50	5	US-09-504-231B-2943	Sequence 2943, Ap
c 157	17.2	1.6	34	7	US-10-150-407-89	Sequence 89, Appl	230	17	1.6	50	5	US-09-504-231B-2968	Sequence 2968, Ap
158	17.2	1.6	35	7	US-10-013-032-21	Sequence 21, Appl	231	17	1.6	50	5	US-09-504-231B-2969	Sequence 2969, Ap
c 159	17.2	1.6	37	5	US-09-780-164-1816	Sequence 1816, Ap	232	17	1.6	50	5	US-09-504-231B-2973	Sequence 2973, Ap
160	17.2	1.6	38	7	US-10-138-674-15973	Sequence 15973, A	233	17	1.6	50	5	US-09-504-231B-2975	Sequence 2975, Ap
161	17.2	1.6	40	7	US-10-135-965-6	Sequence 6, Appl	234	17	1.6	50	5	US-09-504-231B-3011	Sequence 3011, Ap
c 162	17.2	1.6	40	7	US-10-135-965-39	Sequence 39, Appl	235	17	1.6	50	5	US-09-504-231B-3029	Sequence 3029, Ap
163	17.2	1.6	40	7	US-10-135-965-49	Sequence 49, Appl	236	17	1.6	50	5	US-09-504-231B-3052	Sequence 3052, Ap
c 164	17.2	1.6	41	7	US-10-043-573-61	Sequence 61, Appl	237	17	1.6	50	5	US-09-504-231B-3058	Sequence 3058, Ap
165	17.2	1.6	41	7	US-10-023-831A-36	Sequence 36, Appl	238	17	1.6	50	5	US-09-504-231B-3060	Sequence 3060, Ap
166	17.2	1.6	42	6	US-10-204-029-30	Sequence 30, Appl	239	17	1.6	50	5	US-09-504-231B-3071	Sequence 3071, Ap
167	17.2	1.6	44	1	PCT-US02-25941-2055	Sequence 2055, Ap	240	17	1.6	50	5	US-09-504-231B-3074	Sequence 3074, Ap
c 168	17.2	1.6	47	5	US-09-727-739B-50	Sequence 50, Appl	241	17	1.6	50	5	US-09-504-231B-3094	Sequence 3094, Ap
c 169	17.2	1.6	47	7	US-10-170-097-1170	Sequence 1170, Ap	242	17	1.6	50	5	US-09-504-231B-3102	Sequence 3102, Ap
170	17.2	1.6	50	5	US-09-504-231B-2916	Sequence 2916, Ap	243	17	1.6	50	5	US-09-504-231B-3106	Sequence 3106, Ap
171	17.2	1.6	50	5	US-09-504-231B-2966	Sequence 2966, Ap	244	17	1.6	50	5	US-09-504-231B-3122	Sequence 3122, Ap

245	17	1.6	50	5	US-09-274-553D-2919	Sequence 2919, Ap	c 318	16.8	1.5	37	5	US-09-745-237A-2819	Sequence 2819, Ap
246	17	1.6	50	5	US-09-274-553D-2922	Sequence 2922, Ap	c 319	16.8	1.5	37	7	US-10-138-674-18614	Sequence 18614, A
247	17	1.6	50	5	US-09-274-553D-2940	Sequence 2940, Ap	320	16.8	1.5	38	7	US-10-138-674-15507	Sequence 15507, A
248	17	1.6	50	5	US-09-274-553D-2943	Sequence 2943, Ap	321	16.8	1.5	38	7	US-10-138-674-16258	Sequence 16258, A
249	17	1.6	50	5	US-09-274-553D-2968	Sequence 2968, Ap	322	16.8	1.5	38	7	US-10-156-306-1784	Sequence 1784, Ap
250	17	1.6	50	5	US-09-274-553D-2969	Sequence 2969, Ap	c 323	16.8	1.5	38	8	US-60-400-689-156	Sequence 156, App
251	17	1.6	50	5	US-09-274-553D-2973	Sequence 2973, Ap	c 324	16.8	1.5	40	1	PCT-US02-25943-27542	Sequence 27542, A
252	17	1.6	50	5	US-09-274-553D-2975	Sequence 2975, Ap	c 325	16.8	1.5	40	1	PCT-US02-25943-27543	Sequence 27543, A
253	17	1.6	50	5	US-09-274-553D-3011	Sequence 3011, Ap	c 326	16.8	1.5	40	6	US-10-227-565-27542	Sequence 27542, A
254	17	1.6	50	5	US-09-274-553D-3029	Sequence 3029, Ap	c 327	16.8	1.5	40	6	US-10-227-565-27543	Sequence 27543, A
255	17	1.6	50	5	US-09-274-553D-3052	Sequence 3052, Ap	328	16.8	1.5	42	5	US-09-643-217-31	Sequence 31, Appl
256	17	1.6	50	5	US-09-274-553D-3058	Sequence 3058, Ap	c 329	16.8	1.5	45	1	PCT-US02-25943-35096	Sequence 35096, A
257	17	1.6	50	5	US-09-274-553D-3060	Sequence 3060, Ap	c 330	16.8	1.5	45	6	US-10-227-565-35096	Sequence 35096, A
258	17	1.6	50	5	US-09-274-553D-3071	Sequence 3071, Ap	c 331	16.8	1.5	46	5	US-09-463-282D-9	Sequence 9, Appl
259	17	1.6	50	5	US-09-274-553D-3074	Sequence 3074, Ap	c 332	16.8	1.5	47	7	US-10-170-097-960	Sequence 960, App
260	17	1.6	50	5	US-09-274-553D-3094	Sequence 3094, Ap	c 333	16.8	1.5	47	7	US-10-170-097-1168	Sequence 1168, Ap
261	17	1.6	50	5	US-09-274-553D-3102	Sequence 3102, Ap	334	16.8	1.5	47	7	US-10-170-097-1197	Sequence 1197, Ap
262	17	1.6	50	5	US-09-274-553D-3106	Sequence 3106, Ap	c 335	16.8	1.5	50	5	US-09-904-920A-88	Sequence 88, Appl
263	17	1.6	50	5	US-09-274-553D-3122	Sequence 3122, Ap	c 336	16.8	1.5	50	5	US-09-902-572A-88	Sequence 88, Appl
264	17	1.6	50	5	US-09-611-931A-2919	Sequence 2919, Ap	c 337	16.8	1.5	50	5	US-09-906-815A-88	Sequence 88, Appl
265	17	1.6	50	5	US-09-611-931A-2922	Sequence 2922, Ap	c 338	16.8	1.5	50	5	US-09-906-760A-88	Sequence 88, Appl
266	17	1.6	50	5	US-09-611-931A-2940	Sequence 2940, Ap	c 339	16.8	1.5	50	5	US-09-902-692-88	Sequence 88, Appl
267	17	1.6	50	5	US-09-611-931A-2943	Sequence 2943, Ap	c 340	16.8	1.5	50	5	US-09-906-666A-88	Sequence 88, Appl
268	17	1.6	50	5	US-09-611-931A-2968	Sequence 2968, Ap	c 341	16.8	1.5	50	5	US-09-906-679A-88	Sequence 88, Appl
269	17	1.6	50	5	US-09-611-931A-2969	Sequence 2969, Ap	c 342	16.8	1.5	50	5	US-09-904-877A-88	Sequence 88, Appl
270	17	1.6	50	5	US-09-611-931A-2973	Sequence 2973, Ap	c 343	16.8	1.5	50	5	US-09-903-603A-88	Sequence 88, Appl
271	17	1.6	50	5	US-09-611-931A-2975	Sequence 2975, Ap	c 344	16.8	1.5	50	5	US-09-904-938A-88	Sequence 88, Appl
272	17	1.6	50	5	US-09-611-931A-3011	Sequence 3011, Ap	c 345	16.8	1.5	50	5	US-09-906-722A-88	Sequence 88, Appl
273	17	1.6	50	5	US-09-611-931A-3029	Sequence 3029, Ap	c 346	16.8	1.5	50	5	US-09-907-841-88	Sequence 88, Appl
274	17	1.6	50	5	US-09-611-931A-3052	Sequence 3052, Ap	c 347	16.8	1.5	50	6	US-10-131-831-631	Sequence 631, App
275	17	1.6	50	5	US-09-611-931A-3058	Sequence 3058, Ap	348	16.8	1.5	50	6	US-10-131-831-661	Sequence 661, App
276	17	1.6	50	5	US-09-611-931A-3060	Sequence 3060, Ap	349	16.8	1.5	50	6	US-10-131-831-2352	Sequence 2352, Ap
277	17	1.6	50	5	US-09-611-931A-3071	Sequence 3071, Ap	350	16.8	1.5	50	6	US-10-131-831-3397	Sequence 3397, Ap
278	17	1.6	50	5	US-09-611-931A-3074	Sequence 3074, Ap	351	16.8	1.5	50	6	US-10-131-831-3709	Sequence 3709, Ap
279	17	1.6	50	5	US-09-611-931A-3094	Sequence 3094, Ap	c 352	16.8	1.5	50	6	US-10-131-831-4542	Sequence 4542, Ap
280	17	1.6	50	5	US-09-611-931A-3102	Sequence 3102, Ap	c 353	16.8	1.5	50	6	US-10-131-831-5027	Sequence 5027, Ap
281	17	1.6	50	5	US-09-611-931A-3106	Sequence 3106, Ap	354	16.8	1.5	50	6	US-10-131-831-5710	Sequence 5710, Ap
282	17	1.6	50	5	US-09-611-931A-3122	Sequence 3122, Ap	c 355	16.8	1.5	50	6	US-10-131-831-5774	Sequence 5774, Ap
283	17	1.6	50	6	US-10-131-831-241	Sequence 241, App	356	16.8	1.5	50	6	US-10-131-831-5967	Sequence 5967, Ap
c 284	17	1.6	50	6	US-10-131-831-2039	Sequence 2039, Ap	c 357	16.8	1.5	50	6	US-10-131-831-5978	Sequence 5978, Ap
285	17	1.6	50	6	US-10-131-831-2967	Sequence 2967, Ap	c 358	16.8	1.5	50	6	US-10-131-831-6444	Sequence 6444, Ap
286	17	1.6	50	6	US-10-131-831-3552	Sequence 3552, Ap	c 359	16.8	1.5	50	6	US-10-131-831-6466	Sequence 6466, Ap
c 287	17	1.6	50	6	US-10-131-831-3584	Sequence 3584, Ap	c 360	16.8	1.5	50	6	US-10-131-831-6725	Sequence 6725, Ap
c 288	17	1.6	50	6	US-10-131-831-4302	Sequence 4302, Ap	361	16.8	1.5	50	6	US-10-131-831-6834	Sequence 6834, Ap
289	17	1.6	50	6	US-10-131-831-5023	Sequence 5023, Ap	c 362	16.8	1.5	50	6	US-10-131-831-6856	Sequence 6856, Ap
290	17	1.6	50	6	US-10-131-831-5184	Sequence 5184, Ap	363	16.8	1.5	50	6	US-10-131-831-7115	Sequence 7115, Ap
c 291	17	1.6	50	6	US-10-131-831-5279	Sequence 5279, Ap	c 364	16.8	1.5	50	6	US-10-131-831-7409	Sequence 7409, Ap
c 292	17	1.6	50	6	US-10-131-831-5595	Sequence 5595, Ap	365	16.8	1.5	50	6	US-10-131-831-7488	Sequence 7488, Ap
293	17	1.6	50	6	US-10-131-831-5852	Sequence 5852, Ap	366	16.8	1.5	50	6	US-10-131-831-7722	Sequence 7722, Ap
294	17	1.6	50	6	US-10-131-827-241	Sequence 241, App	c 367	16.8	1.5	50	6	US-10-215-371-88	Sequence 88, Appl
c 295	17	1.6	50	6	US-10-131-827-2039	Sequence 2039, Ap	c 368	16.8	1.5	50	6	US-10-131-827-631	Sequence 631, App
296	17	1.6	50	6	US-10-131-827-2967	Sequence 2967, Ap	369	16.8	1.5	50	6	US-10-131-827-661	Sequence 661, App
297	17	1.6	50	6	US-10-131-827-3552	Sequence 3552, Ap	370	16.8	1.5	50	6	US-10-131-827-2352	Sequence 2352, Ap
c 298	17	1.6	50	6	US-10-131-827-3684	Sequence 3684, Ap	371	16.8	1.5	50	6	US-10-131-827-3397	Sequence 3397, Ap
c 299	17	1.6	50	6	US-10-131-827-4302	Sequence 4302, Ap	372	16.8	1.5	50	6	US-10-131-827-3709	Sequence 3709, Ap
300	17	1.6	50	6	US-10-131-827-5023	Sequence 5023, Ap	373	16.8	1.5	50	6	US-10-131-827-4542	Sequence 4542, Ap
301	17	1.6	50	6	US-10-131-827-5184	Sequence 5184, Ap	c 374	16.8	1.5	50	6	US-10-131-827-5027	Sequence 5027, Ap
c 302	17	1.6	50	6	US-10-131-827-5279	Sequence 5279, Ap	375	16.8	1.5	50	6	US-10-131-827-5710	Sequence 5710, Ap
c 303	17	1.6	50	6	US-10-131-827-5595	Sequence 5595, Ap	c 376	16.8	1.5	50	6	US-10-131-827-5774	Sequence 5774, Ap
304	17	1.6	50	6	US-10-131-827-5852	Sequence 5852, Ap	377	16.8	1.5	50	6	US-10-131-827-5967	Sequence 5967, Ap
c 305	16.8	1.5	24	4	US-08-979-847B-94	Sequence 94, Appl	378	16.8	1.5	50	6	US-10-131-827-5978	Sequence 5978, Ap
c 306	16.8	1.5	24	7	US-10-114-104-94	Sequence 94, Appl	c 379	16.8	1.5	50	6	US-10-131-827-6444	Sequence 6444, Ap
307	16.8	1.5	25	5	US-09-956-604-99523	Sequence 99523, A	380	16.8	1.5	50	6	US-10-131-827-6466	Sequence 6466, Ap
308	16.8	1.5	25	5	US-09-956-604-99524	Sequence 99524, A	c 381	16.8	1.5	50	6	US-10-131-827-6725	Sequence 6725, Ap
c 309	16.8	1.5	25	5	US-09-956-604-99735	Sequence 99735, A	382	16.8	1.5	50	6	US-10-131-827-6834	Sequence 6834, Ap
310	16.8	1.5	25	5	US-09-396-196G-101246	Sequence 101246,	c 383	16.8	1.5	50	6	US-10-131-827-6856	Sequence 6856, Ap
c 311	16.8	1.5	25	5	US-09-396-196G-103061	Sequence 103061,	384	16.8	1.5	50	6	US-10-131-827-7115	Sequence 7115, Ap
312	16.8	1.5	25	5	US-09-396-196G-121980	Sequence 121980,	c 385	16.8	1.5	50	6	US-10-131-827-7409	Sequence 7409, Ap
313	16.8	1.5	25	5	US-09-956-604A-99523	Sequence 99523, A	386	16.8	1.5	50	6	US-10-131-827-7488	Sequence 7488, Ap
314	16.8	1.5	25	5	US-09-956-604A-99524	Sequence 99524, A	387	16.8	1.5	50	6	US-10-131-827-7722	Sequence 7722, Ap
c 315	16.8	1.5	25	5	US-09-956-604A-99735	Sequence 99735, A	c 388	16.6	1.5	23	5	US-09-594-945A-10	Sequence 10, Appl
c 316	16.8	1.5	34	5	US-09-643-217-30	Sequence 30, Appl	c 389	16.6	1.5	25	5	US-09-956-604-48042	Sequence 48042, A
c 317	16.8	1.5	36	5	US-09-964-201A-9	Sequence 9, Appl	390	16.6	1.5	25	5	US-09-956-604-48100	Sequence 48100, A

c 537	16.4	1.5	50	6	US-10-131-831-7683	Sequence 7683, Ap	610	16.2	1.5	45	6	US-10-227-567-10371	Sequence 10371, A
538	16.4	1.5	50	6	US-10-131-831-7919	Sequence 7919, Ap	c 611	16.2	1.5	47	1	PCT-US02-25942-6784	Sequence 6784, Ap
c 539	16.4	1.5	50	6	US-10-131-831-8004	Sequence 8004, Ap	612	16.2	1.5	47	5	US-09-967-386-4	Sequence 4, Appli
540	16.4	1.5	50	6	US-10-131-827-210	Sequence 210, App	613	16.2	1.5	47	6	US-10-199-820-213	Sequence 213, App
541	16.4	1.5	50	6	US-10-131-827-239	Sequence 239, App	c 614	16.2	1.5	47	6	US-10-227-567-6784	Sequence 6784, Ap
542	16.4	1.5	50	6	US-10-131-827-787	Sequence 787, App	615	16.2	1.5	47	7	US-10-001-052-7	Sequence 7, Appli
c 543	16.4	1.5	50	6	US-10-131-827-801	Sequence 801, App	616	16.2	1.5	47	7	US-10-170-097-1165	Sequence 1165, Ap
544	16.4	1.5	50	6	US-10-131-827-1122	Sequence 1122, Ap	617	16.2	1.5	48	1	PCT-US02-25942-10369	Sequence 10369, A
545	16.4	1.5	50	6	US-10-131-827-1780	Sequence 1780, Ap	618	16.2	1.5	48	1	PCT-US02-25945-1820	Sequence 1820, Ap
546	16.4	1.5	50	6	US-10-131-827-1798	Sequence 1798, Ap	619	16.2	1.5	48	1	PCT-US02-25939-1607	Sequence 1607, Ap
c 547	16.4	1.5	50	6	US-10-131-827-2180	Sequence 2180, Ap	620	16.2	1.5	48	5	US-09-758-282B-192	Sequence 192, App
548	16.4	1.5	50	6	US-10-131-827-2315	Sequence 2315, Ap	621	16.2	1.5	48	6	US-10-227-567-10369	Sequence 10369, A
549	16.4	1.5	50	6	US-10-131-827-2420	Sequence 2420, Ap	622	16.2	1.5	48	6	US-10-227-568-1607	Sequence 1607, Ap
550	16.4	1.5	50	6	US-10-131-827-2497	Sequence 2497, Ap	623	16.2	1.5	48	6	US-10-227-562-1820	Sequence 1820, Ap
551	16.4	1.5	50	6	US-10-131-827-2919	Sequence 2919, Ap	624	16.2	1.5	48	7	US-10-156-306-7452	Sequence 7452, Ap
552	16.4	1.5	50	6	US-10-131-827-3451	Sequence 3451, Ap	c 625	16.2	1.5	49	6	US-10-229-335-23	Sequence 23, Appl
c 553	16.4	1.5	50	6	US-10-131-827-3803	Sequence 3803, Ap	c 626	16.2	1.5	50	1	PCT-US02-25942-10370	Sequence 10370, A
554	16.4	1.5	50	6	US-10-131-827-4572	Sequence 4572, Ap	627	16.2	1.5	50	1	PCT-US02-25942-10372	Sequence 10372, A
555	16.4	1.5	50	6	US-10-131-827-5212	Sequence 5212, Ap	c 628	16.2	1.5	50	5	US-09-504-231B-2910	Sequence 2910, Ap
c 556	16.4	1.5	50	6	US-10-131-827-7683	Sequence 7683, Ap	629	16.2	1.5	50	5	US-09-504-231B-2913	Sequence 2913, Ap
557	16.4	1.5	50	6	US-10-131-827-7919	Sequence 7919, Ap	630	16.2	1.5	50	5	US-09-504-231B-2964	Sequence 2964, Ap
c 558	16.4	1.5	50	6	US-10-131-827-8004	Sequence 8004, Ap	631	16.2	1.5	50	5	US-09-504-231B-3008	Sequence 3008, Ap
559	16.4	1.5	50	7	US-10-011-931-26	Sequence 26, Appl	632	16.2	1.5	50	5	US-09-504-231B-3089	Sequence 3089, Ap
c 560	16.2	1.5	21	1	PCT-US01-44838-907	Sequence 907, App	633	16.2	1.5	50	5	US-09-274-553D-2910	Sequence 2910, Ap
561	16.2	1.5	22	6	US-10-074-566-30	Sequence 30, Appl	634	16.2	1.5	50	5	US-09-274-553D-2913	Sequence 2913, Ap
562	16.2	1.5	25	5	US-09-956-604-27614	Sequence 27614, A	635	16.2	1.5	50	5	US-09-274-553D-2964	Sequence 2964, Ap
563	16.2	1.5	25	5	US-09-956-604-52152	Sequence 52152, A	636	16.2	1.5	50	5	US-09-274-553D-3008	Sequence 3008, Ap
564	16.2	1.5	25	5	US-09-956-604-52171	Sequence 52171, A	637	16.2	1.5	50	5	US-09-274-553D-3089	Sequence 3089, Ap
c 565	16.2	1.5	25	5	US-09-956-604-52312	Sequence 52312, A	638	16.2	1.5	50	5	US-09-718-321A-100	Sequence 100, App
c 566	16.2	1.5	25	5	US-09-956-604-52321	Sequence 52321, A	c 639	16.2	1.5	50	5	US-09-718-321A-991	Sequence 991, App
567	16.2	1.5	25	5	US-09-396-196G-1800	Sequence 1800, Ap	640	16.2	1.5	50	5	US-09-611-931A-2910	Sequence 2910, Ap
c 568	16.2	1.5	25	5	US-09-396-196G-6603	Sequence 6603, Ap	641	16.2	1.5	50	5	US-09-611-931A-2913	Sequence 2913, Ap
569	16.2	1.5	25	5	US-09-396-196G-49457	Sequence 49457, A	642	16.2	1.5	50	5	US-09-611-931A-2964	Sequence 2964, Ap
570	16.2	1.5	25	5	US-09-396-196G-65282	Sequence 65282, A	643	16.2	1.5	50	5	US-09-611-931A-3008	Sequence 3008, Ap
571	16.2	1.5	25	5	US-09-956-604A-27614	Sequence 27614, A	644	16.2	1.5	50	5	US-09-611-931A-3089	Sequence 3089, Ap
572	16.2	1.5	25	5	US-09-956-604A-52152	Sequence 52152, A	645	16.2	1.5	50	6	US-10-131-831-39	Sequence 39, Appl
573	16.2	1.5	25	5	US-09-956-604A-52171	Sequence 52171, A	c 646	16.2	1.5	50	6	US-10-131-831-263	Sequence 263, App
c 574	16.2	1.5	25	5	US-09-956-604A-52312	Sequence 52312, A	647	16.2	1.5	50	6	US-10-131-831-463	Sequence 463, App
c 575	16.2	1.5	25	5	US-09-956-604A-52321	Sequence 52321, A	c 648	16.2	1.5	50	6	US-10-131-831-1007	Sequence 1007, Ap
576	16.2	1.5	27	5	US-09-868-131-14	Sequence 14, Appl	649	16.2	1.5	50	6	US-10-131-831-1255	Sequence 1255, Ap
577	16.2	1.5	27	5	US-09-868-131A-14	Sequence 14, Appl	c 650	16.2	1.5	50	6	US-10-131-831-1836	Sequence 1836, Ap
578	16.2	1.5	29	6	US-10-216-484-24	Sequence 24, Appl	c 651	16.2	1.5	50	6	US-10-131-831-2042	Sequence 2042, Ap
579	16.2	1.5	30	6	US-10-199-820-214	Sequence 214, App	c 652	16.2	1.5	50	6	US-10-131-831-2177	Sequence 2177, Ap
580	16.2	1.5	31	1	PCT-US02-25943-7777	Sequence 7777, Ap	653	16.2	1.5	50	6	US-10-131-831-2841	Sequence 2841, Ap
581	16.2	1.5	31	6	US-10-227-565-7777	Sequence 7777, Ap	654	16.2	1.5	50	6	US-10-131-831-2875	Sequence 2875, Ap
c 582	16.2	1.5	31	7	US-10-138-674-20131	Sequence 20131, A	655	16.2	1.5	50	6	US-10-131-831-3047	Sequence 3047, Ap
c 583	16.2	1.5	34	1	PCT-US02-25943-16875	Sequence 16875, A	656	16.2	1.5	50	6	US-10-131-831-3139	Sequence 3139, Ap
c 584	16.2	1.5	34	1	PCT-US02-25943-16942	Sequence 16942, A	c 657	16.2	1.5	50	6	US-10-131-831-3770	Sequence 3770, Ap
c 585	16.2	1.5	34	1	PCT-US02-25943-16943	Sequence 16943, A	658	16.2	1.5	50	6	US-10-131-831-4011	Sequence 4011, Ap
c 586	16.2	1.5	34	6	US-10-227-565-16875	Sequence 16875, A	659	16.2	1.5	50	6	US-10-131-831-5576	Sequence 5576, Ap
c 587	16.2	1.5	34	6	US-10-227-565-16942	Sequence 16942, A	660	16.2	1.5	50	6	US-10-131-831-7475	Sequence 7475, Ap
c 588	16.2	1.5	34	6	US-10-227-565-16943	Sequence 16943, A	c 661	16.2	1.5	50	6	US-10-131-827-39	Sequence 39, Appl
c 589	16.2	1.5	34	7	US-10-027-632-52394	Sequence 52394, A	c 662	16.2	1.5	50	6	US-10-131-827-263	Sequence 263, App
590	16.2	1.5	38	1	PCT-US02-25942-12876	Sequence 12876, A	663	16.2	1.5	50	6	US-10-131-827-463	Sequence 463, App
591	16.2	1.5	38	5	US-09-745-237A-2558	Sequence 2558, Ap	664	16.2	1.5	50	6	US-10-131-827-1007	Sequence 1007, Ap
592	16.2	1.5	38	6	US-10-227-567-12876	Sequence 12876, A	665	16.2	1.5	50	6	US-10-131-827-1255	Sequence 1255, Ap
c 593	16.2	1.5	38	7	US-10-138-674-9824	Sequence 9824, Ap	c 666	16.2	1.5	50	6	US-10-131-827-1836	Sequence 1836, Ap
594	16.2	1.5	38	7	US-10-156-306-5713	Sequence 5713, Ap	c 667	16.2	1.5	50	6	US-10-131-827-2042	Sequence 2042, Ap
c 595	16.2	1.5	39	6	US-10-204-362-11	Sequence 11, Appl	c 668	16.2	1.5	50	6	US-10-131-827-2177	Sequence 2177, Ap
596	16.2	1.5	39	7	US-10-027-632-58442	Sequence 58442, A	669	16.2	1.5	50	6	US-10-131-827-2841	Sequence 2841, Ap
c 597	16.2	1.5	40	5	US-09-548-588C-248	Sequence 248, App	670	16.2	1.5	50	6	US-10-131-827-2875	Sequence 2875, Ap
598	16.2	1.5	40	7	US-10-109-349A-90	Sequence 90, Appl	671	16.2	1.5	50	6	US-10-131-827-3047	Sequence 3047, Ap
c 599	16.2	1.5	41	1	PCT-US02-25942-11615	Sequence 11615, A	c 672	16.2	1.5	50	6	US-10-131-827-3139	Sequence 3139, Ap
c 600	16.2	1.5	41	6	US-10-088-966-281	Sequence 281, App	c 673	16.2	1.5	50	6	US-10-131-827-3770	Sequence 3770, Ap
c 601	16.2	1.5	41	6	US-10-227-567-11615	Sequence 11615, A	674	16.2	1.5	50	6	US-10-131-827-4011	Sequence 4011, Ap
602	16.2	1.5	42	5	US-09-726-649-110	Sequence 110, App	675	16.2	1.5	50	6	US-10-131-827-5576	Sequence 5576, Ap
603	16.2	1.5	43	1	PCT-US02-25943-52475	Sequence 52475, A	676	16.2	1.5	50	6	US-10-131-827-7475	Sequence 7475, Ap
604	16.2	1.5	43	6	US-10-227-565-52475	Sequence 52475, A	c 677	16.2	1.5	50	6	US-10-227-567-10370	Sequence 10370, A
605	16.2	1.5	45	1	PCT-US02-25942-10371	Sequence 10371, A	c 678	16.2	1.5	50	6	US-10-227-567-10372	Sequence 10372, A
c 606	16.2	1.5	45	6	US-10-018-453-6	Sequence 6, Appli	679	16	1.5	25	5	US-09-956-604-6304	Sequence 6304, Ap
c 607	16.2	1.5	45	6	US-10-018-453-12	Sequence 12, Appl	c 680	16	1.5	25	5	US-09-956-604-9732	Sequence 9732, Ap
c 608	16.2	1.5	45	6	US-10-018-453-13	Sequence 13, Appl	681	16	1.5	25	5	US-09-956-604-65912	Sequence 65912, A
c 609	16.2	1.5	45	6	US-10-018-453-14	Sequence 14, Appl	682	16	1.5	25	5	US-09-956-604-81349	Sequence 81349, A

c 683	16	1.5	25	5	US-09-956-604-81565	Sequence 81565, A	c 756	16	1.5	44	6	US-10-227-567-2189	Sequence 2189, Ap
c 684	16	1.5	25	5	US-09-956-604-85397	Sequence 85397, A	c 757	16	1.5	44	6	US-10-227-567-15325	Sequence 15325, A
c 685	16	1.5	25	5	US-09-396-196G-2894	Sequence 2894, Ap	c 758	16	1.5	44	7	US-10-026-925-33	Sequence 33, Appl
686	16	1.5	25	5	US-09-396-196G-11848	Sequence 11848, A	759	16	1.5	45	1	PCT-US02-25942-2236	Sequence 2236, Ap
687	16	1.5	25	5	US-09-396-196G-16952	Sequence 16952, A	760	16	1.5	45	5	US-09-978-403A-209	Sequence 209, App
688	16	1.5	25	5	US-09-396-196G-21177	Sequence 21177, A	761	16	1.5	45	5	US-09-978-544A-209	Sequence 209, App
c 689	16	1.5	25	5	US-09-396-196G-28722	Sequence 28722, A	762	16	1.5	45	5	US-09-978-681A-209	Sequence 209, App
c 690	16	1.5	25	5	US-09-396-196G-30654	Sequence 30654, A	763	16	1.5	45	5	US-09-978-757A-209	Sequence 209, App
691	16	1.5	25	5	US-09-396-196G-33413	Sequence 33413, A	764	16	1.5	45	5	US-09-978-564A-209	Sequence 209, App
692	16	1.5	25	5	US-09-396-196G-33421	Sequence 33421, A	765	16	1.5	45	5	US-09-999-831A-209	Sequence 209, App
693	16	1.5	25	5	US-09-396-196G-33422	Sequence 33422, A	766	16	1.5	45	5	US-09-999-829A-209	Sequence 209, App
694	16	1.5	25	5	US-09-396-196G-37543	Sequence 37543, A	767	16	1.5	45	5	US-09-978-375A-209	Sequence 209, App
c 695	16	1.5	25	5	US-09-396-196G-39840	Sequence 39840, A	768	16	1.5	45	5	US-09-978-423A-209	Sequence 209, App
696	16	1.5	25	5	US-09-396-196G-57394	Sequence 57394, A	769	16	1.5	45	5	US-09-978-187-209	Sequence 209, App
c 697	16	1.5	25	5	US-09-396-196G-64452	Sequence 64452, A	770	16	1.5	45	5	US-09-978-187B-209	Sequence 209, App
698	16	1.5	25	5	US-09-396-196G-65459	Sequence 65459, A	771	16	1.5	45	6	US-10-013-917A-209	Sequence 209, App
699	16	1.5	25	5	US-09-396-196G-65460	Sequence 65460, A	772	16	1.5	45	6	US-10-210-029-209	Sequence 209, App
c 700	16	1.5	25	5	US-09-396-196G-72707	Sequence 72707, A	773	16	1.5	45	6	US-10-013-927A-209	Sequence 209, App
c 701	16	1.5	25	5	US-09-396-196G-89412	Sequence 89412, A	774	16	1.5	45	6	US-10-210-028-209	Sequence 209, App
c 702	16	1.5	25	5	US-09-396-196G-125194	Sequence 125194, A	775	16	1.5	45	6	US-10-143-029A-209	Sequence 209, App
c 703	16	1.5	25	5	US-09-956-604A-6304	Sequence 6304, Ap	776	16	1.5	45	6	US-10-143-089A-209	Sequence 209, App
c 704	16	1.5	25	5	US-09-956-604A-9732	Sequence 9732, Ap	777	16	1.5	45	6	US-10-143-030A-209	Sequence 209, App
705	16	1.5	25	5	US-09-956-604A-65912	Sequence 65912, A	778	16	1.5	45	6	US-10-145-124A-209	Sequence 209, App
706	16	1.5	25	5	US-09-956-604A-81349	Sequence 81349, A	779	16	1.5	45	6	US-10-013-926A-209	Sequence 209, App
c 707	16	1.5	25	5	US-09-956-604A-81565	Sequence 81565, A	780	16	1.5	45	6	US-10-166-709A-209	Sequence 209, App
c 708	16	1.5	25	5	US-09-956-604A-85397	Sequence 85397, A	781	16	1.5	45	6	US-10-227-567-2236	Sequence 209, App
c 709	16	1.5	25	6	US-10-215-112-8649	Sequence 8649, Ap	782	16	1.5	45	7	US-10-013-921A-209	Sequence 209, App
710	16	1.5	26	5	US-09-225-201B-956	Sequence 956, App	783	16	1.5	45	7	US-10-013-929A-209	Sequence 209, App
c 711	16	1.5	26	5	US-09-225-201B-1015	Sequence 1015, Ap	784	16	1.5	45	7	US-10-013-918A-209	Sequence 209, App
712	16	1.5	30	7	US-10-117-077-5	Sequence 5, Appl	785	16	1.5	45	7	US-10-017-082A-209	Sequence 209, App
713	16	1.5	33	6	US-10-053-853A-1837	Sequence 1837, Ap	786	16	1.5	45	7	US-10-017-085A-209	Sequence 209, App
c 714	16	1.5	33	6	US-10-102-469-35	Sequence 35, Appl	787	16	1.5	45	7	US-10-013-916A-209	Sequence 209, App
c 715	16	1.5	35	6	US-10-144-678A-841	Sequence 841, App	788	16	1.5	45	7	US-10-017-086A-209	Sequence 209, App
716	16	1.5	36	5	US-09-504-231B-2170	Sequence 2170, Ap	789	16	1.5	45	7	US-10-013-925A-209	Sequence 209, App
717	16	1.5	36	5	US-09-274-553D-2170	Sequence 2170, Ap	790	16	1.5	45	7	US-10-017-081A-209	Sequence 209, App
718	16	1.5	36	5	US-09-498-824A-1489	Sequence 1489, Ap	791	16	1.5	45	7	US-10-016-177A-209	Sequence 209, App
c 719	16	1.5	36	5	US-09-498-824A-1577	Sequence 1577, Ap	792	16	1.5	45	7	US-10-017-084A-209	Sequence 209, App
c 720	16	1.5	36	5	US-09-498-824A-1714	Sequence 1714, Ap	793	16	1.5	45	7	US-10-013-923A-209	Sequence 209, App
721	16	1.5	36	5	US-09-611-931A-2170	Sequence 2170, Ap	794	16	1.5	45	7	US-10-017-083A-209	Sequence 209, App
c 722	16	1.5	36	8	US-60-377-247-7	Sequence 7, Appl	795	16	1.5	45	7	US-10-013-920A-209	Sequence 209, App
c 723	16	1.5	37	5	US-09-745-237A-2767	Sequence 2767, Ap	c 796	16	1.5	46	1	PCT-US02-25943-3980	Sequence 3980, Ap
724	16	1.5	37	5	US-09-863-733A-6	Sequence 6, Appl	c 797	16	1.5	46	6	US-10-195-752-17	Sequence 17, Appl
725	16	1.5	37	6	US-10-116-420-6	Sequence 6, Appl	798	16	1.5	46	6	US-10-191-540-104	Sequence 104, App
c 726	16	1.5	37	7	US-10-138-674-18603	Sequence 18603, A	c 799	16	1.5	46	6	US-10-227-565-3980	Sequence 3980, Ap
c 727	16	1.5	37	7	US-10-138-674-18711	Sequence 18711, A	c 800	16	1.5	46	7	US-10-166-626-5	Sequence 5, Appl
c 728	16	1.5	38	1	PCT-US01-18912-62	Sequence 62, Appl	801	16	1.5	46	7	US-10-080-100-104	Sequence 104, App
729	16	1.5	38	5	US-09-745-237A-2195	Sequence 2195, Ap	802	16	1.5	46	8	US-60-388-055-17	Sequence 17, Appl
730	16	1.5	38	5	US-09-745-237A-2642	Sequence 2642, Ap	803	16	1.5	47	6	US-10-198-235-179	Sequence 179, App
731	16	1.5	38	5	US-09-730-289B-2370	Sequence 2370, Ap	804	16	1.5	47	7	US-10-170-097-955	Sequence 955, App
c 732	16	1.5	38	5	US-09-863-733A-23	Sequence 23, Appl	c 805	16	1.5	48	1	PCT-US02-25942-3183	Sequence 3183, Ap
733	16	1.5	38	5	US-09-863-733A-24	Sequence 24, Appl	806	16	1.5	48	1	PCT-US02-25942-3184	Sequence 3184, Ap
c 734	16	1.5	38	6	US-10-116-420-23	Sequence 23, Appl	807	16	1.5	48	1	PCT-US02-25942-15199	Sequence 15199, A
735	16	1.5	38	6	US-10-116-420-24	Sequence 24, Appl	808	16	1.5	48	1	PCT-US02-25943-3979	Sequence 3979, Ap
736	16	1.5	38	7	US-10-138-674-9885	Sequence 9885, Ap	c 809	16	1.5	48	6	US-10-227-567-3183	Sequence 3183, Ap
737	16	1.5	38	7	US-10-138-674-10792	Sequence 10792, A	810	16	1.5	48	6	US-10-227-567-3184	Sequence 3184, Ap
738	16	1.5	38	7	US-10-138-674-12806	Sequence 12806, A	811	16	1.5	48	6	US-10-227-567-15199	Sequence 15199, A
739	16	1.5	38	7	US-10-138-674-13071	Sequence 13071, A	812	16	1.5	48	6	US-10-227-565-3979	Sequence 3979, Ap
740	16	1.5	38	7	US-10-138-674-16123	Sequence 16123, A	c 813	16	1.5	49	1	PCT-US02-25942-3182	Sequence 3182, Ap
741	16	1.5	39	5	US-09-747-774A-31	Sequence 31, Appl	c 814	16	1.5	49	1	PCT-US02-25942-8993	Sequence 8993, Ap
742	16	1.5	39	5	US-09-949-039-91	Sequence 91, Appl	815	16	1.5	49	1	PCT-US02-25942-8994	Sequence 8994, Ap
c 743	16	1.5	39	6	US-10-263-341-95	Sequence 95, Appl	c 816	16	1.5	49	6	US-10-227-567-3182	Sequence 3182, Ap
744	16	1.5	40	7	US-10-109-349A-204	Sequence 204, App	c 817	16	1.5	49	6	US-10-227-567-8993	Sequence 8993, Ap
745	16	1.5	42	1	PCT-US02-12405-491	Sequence 491, App	c 818	16	1.5	49	6	US-10-227-567-8994	Sequence 8994, Ap
746	16	1.5	42	1	PCT-US02-12405-529	Sequence 529, App	819	16	1.5	49	7	US-10-079-818-34	Sequence 34, Appl
c 747	16	1.5	42	5	US-09-446-415B-10	Sequence 10, Appl	820	16	1.5	50	1	PCT-US02-25942-7643	Sequence 7643, Ap
c 748	16	1.5	42	5	US-09-518-598B-8	Sequence 8, Appl	821	16	1.5	50	4	US-08-475-466E-57	Sequence 57, Appl
749	16	1.5	42	7	US-10-045-674-491	Sequence 491, App	822	16	1.5	50	4	US-08-475-466E-60	Sequence 60, Appl
750	16	1.5	42	7	US-10-045-674-529	Sequence 529, App	823	16	1.5	50	5	US-09-504-231B-2926	Sequence 2926, Ap
751	16	1.5	43	1	PCT-US02-25942-15326	Sequence 15326, A	824	16	1.5	50	5	US-09-504-231B-2935	Sequence 2935, Ap
752	16	1.5	43	5	US-09-991-003B-11	Sequence 11, Appl	825	16	1.5	50	5	US-09-274-553D-2926	Sequence 2926, Ap
753	16	1.5	43	6	US-10-227-567-15326	Sequence 15326, A	826	16	1.5	50	5	US-09-274-553D-2935	Sequence 2935, Ap
c 754	16	1.5	44	1	PCT-US02-25942-2189	Sequence 2189, Ap	c 827	16	1.5	50	5	US-09-718-321A-990	Sequence 990, App
c 755	16	1.5	44	1	PCT-US02-25942-15325	Sequence 15325, A	828	16	1.5	50	5	US-09-611-931A-2926	Sequence 2926, Ap

829	16	1.5	50	5	US-09-611-931A-2935	Sequence 2935, Ap	902	15.8	1.5	25	5	US-09-956-604A-6096	Sequence 6096, Ap
c 830	16	1.5	50	6	US-10-131-831-259	Sequence 259, App	903	15.8	1.5	25	5	US-09-956-604A-27615	Sequence 27615, A
831	16	1.5	50	6	US-10-131-831-1010	Sequence 1010, Ap	904	15.8	1.5	25	5	US-09-956-604A-27616	Sequence 27616, A
832	16	1.5	50	6	US-10-131-831-1011	Sequence 1011, Ap	c 905	15.8	1.5	25	5	US-09-956-604A-98262	Sequence 98262, A
c 833	16	1.5	50	6	US-10-131-831-1572	Sequence 1572, Ap	906	15.8	1.5	25	5	US-09-956-604A-98283	Sequence 98283, A
834	16	1.5	50	6	US-10-131-831-1711	Sequence 1711, Ap	907	15.8	1.5	25	5	US-09-956-604A-99525	Sequence 99525, A
c 835	16	1.5	50	6	US-10-131-831-2289	Sequence 2289, Ap	c 908	15.8	1.5	27	1	PCT-US02-25941-2749	Sequence 2749, Ap
c 836	16	1.5	50	6	US-10-131-831-2422	Sequence 2422, Ap	909	15.8	1.5	27	1	PCT-US02-25941-2750	Sequence 2750, Ap
c 837	16	1.5	50	6	US-10-131-831-2958	Sequence 2958, Ap	c 910	15.8	1.5	27	6	US-10-109-812-48	Sequence 48, Appl
c 838	16	1.5	50	6	US-10-131-831-3227	Sequence 3227, Ap	911	15.8	1.5	28	5	US-09-975-553-22	Sequence 22, Appl
839	16	1.5	50	6	US-10-131-831-4883	Sequence 4883, Ap	912	15.8	1.5	28	5	US-09-687-476-22	Sequence 22, Appl
840	16	1.5	50	6	US-10-131-831-4883	Sequence 4883, Ap	913	15.8	1.5	28	5	US-09-687-372-22	Sequence 22, Appl
c 841	16	1.5	50	6	US-10-131-831-5672	Sequence 5672, Ap	914	15.8	1.5	28	5	US-09-687-477-22	Sequence 22, Appl
c 842	16	1.5	50	6	US-10-131-831-6027	Sequence 6027, Ap	915	15.8	1.5	28	6	US-10-125-772-13	Sequence 13, Appl
843	16	1.5	50	6	US-10-131-831-6044	Sequence 6044, Ap	916	15.8	1.5	28	6	US-10-125-792-13	Sequence 13, Appl
c 844	16	1.5	50	6	US-10-131-831-6328	Sequence 6328, Ap	917	15.8	1.5	28	6	US-10-125-778-13	Sequence 13, Appl
845	16	1.5	50	6	US-10-131-831-6336	Sequence 6336, Ap	918	15.8	1.5	28	7	US-10-016-496-17	Sequence 17, Appl
846	16	1.5	50	6	US-10-131-831-6444	Sequence 6444, Ap	c 919	15.8	1.5	32	1	PCT-US02-25943-12179	Sequence 12179, A
c 847	16	1.5	50	6	US-10-131-831-6559	Sequence 6559, Ap	c 920	15.8	1.5	32	1	PCT-US02-25943-12180	Sequence 12180, A
c 848	16	1.5	50	6	US-10-131-831-6634	Sequence 6634, Ap	921	15.8	1.5	32	6	US-10-211-798-1255	Sequence 1255, Ap
c 849	16	1.5	50	6	US-10-131-831-6834	Sequence 6834, Ap	c 922	15.8	1.5	32	6	US-10-227-565-12179	Sequence 12179, A
850	16	1.5	50	6	US-10-131-831-6949	Sequence 6949, Ap	c 923	15.8	1.5	32	6	US-10-227-565-12180	Sequence 12180, A
c 851	16	1.5	50	6	US-10-131-831-7024	Sequence 7024, Ap	c 924	15.8	1.5	33	5	US-09-227-718B-7	Sequence 7, Appli
c 852	16	1.5	50	6	US-10-131-831-7175	Sequence 7175, Ap	925	15.8	1.5	33	7	US-10-133-226-9	Sequence 9, Appli
853	16	1.5	50	6	US-10-131-831-7192	Sequence 7192, Ap	c 926	15.8	1.5	34	6	US-10-216-484-12	Sequence 12, Appl
c 854	16	1.5	50	6	US-10-131-831-7884	Sequence 7884, Ap	927	15.8	1.5	36	5	US-09-504-231B-2751	Sequence 2751, Ap
c 855	16	1.5	50	6	US-10-131-831-7988	Sequence 7988, Ap	928	15.8	1.5	36	5	US-09-274-553D-2751	Sequence 2751, Ap
c 856	16	1.5	50	6	US-10-131-831-8002	Sequence 8002, Ap	929	15.8	1.5	36	5	US-09-611-931A-2751	Sequence 2751, Ap
857	16	1.5	50	6	US-10-131-831-8049	Sequence 8049, Ap	930	15.8	1.5	36	6	US-10-170-390-15	Sequence 15, Appl
c 858	16	1.5	50	6	US-10-131-827-259	Sequence 259, App	c 931	15.8	1.5	36	7	US-10-138-674-16442	Sequence 16442, A
c 859	16	1.5	50	6	US-10-131-827-1010	Sequence 1010, Ap	c 932	15.8	1.5	37	1	PCT-US02-12636-145	Sequence 145, App
860	16	1.5	50	6	US-10-131-827-1011	Sequence 1011, Ap	c 933	15.8	1.5	37	7	US-10-126-103-145	Sequence 145, App
c 861	16	1.5	50	6	US-10-131-827-1572	Sequence 1572, Ap	c 934	15.8	1.5	37	7	US-10-138-674-20721	Sequence 20721, A
862	16	1.5	50	6	US-10-131-827-1711	Sequence 1711, Ap	c 935	15.8	1.5	38	1	PCT-US02-25944-2628	Sequence 2628, Ap
c 863	16	1.5	50	6	US-10-131-827-2289	Sequence 2289, Ap	936	15.8	1.5	38	5	US-09-745-237A-1854	Sequence 1854, Ap
c 864	16	1.5	50	6	US-10-131-827-2422	Sequence 2422, Ap	937	15.8	1.5	38	5	US-09-745-237A-1867	Sequence 1867, Ap
c 865	16	1.5	50	6	US-10-131-827-2958	Sequence 2958, Ap	938	15.8	1.5	38	5	US-09-745-237A-2006	Sequence 2006, Ap
c 866	16	1.5	50	6	US-10-131-827-3227	Sequence 3227, Ap	939	15.8	1.5	38	5	US-09-745-237A-2150	Sequence 2150, Ap
867	16	1.5	50	6	US-10-131-827-4883	Sequence 4883, Ap	940	15.8	1.5	38	5	US-09-745-237A-2325	Sequence 2325, Ap
868	16	1.5	50	6	US-10-131-827-5672	Sequence 5672, Ap	941	15.8	1.5	38	5	US-09-745-237A-2371	Sequence 2371, Ap
c 869	16	1.5	50	6	US-10-131-827-6027	Sequence 6027, Ap	942	15.8	1.5	38	5	US-09-745-237A-2451	Sequence 2451, Ap
c 870	16	1.5	50	6	US-10-131-827-6029	Sequence 6029, Ap	943	15.8	1.5	38	5	US-09-745-237A-2491	Sequence 2491, Ap
871	16	1.5	50	6	US-10-131-827-6044	Sequence 6044, Ap	c 944	15.8	1.5	38	5	US-09-745-237A-2570	Sequence 2570, Ap
c 872	16	1.5	50	6	US-10-131-827-6328	Sequence 6328, Ap	945	15.8	1.5	38	5	US-09-730-289B-2349	Sequence 2349, Ap
873	16	1.5	50	6	US-10-131-827-6336	Sequence 6336, Ap	c 946	15.8	1.5	38	5	US-09-730-289B-2662	Sequence 2662, Ap
874	16	1.5	50	6	US-10-131-827-6444	Sequence 6444, Ap	c 947	15.8	1.5	38	5	US-09-693-755-117	Sequence 117, App
c 875	16	1.5	50	6	US-10-131-827-6559	Sequence 6559, Ap	948	15.8	1.5	38	5	US-09-780-164-1256	Sequence 1256, Ap
c 876	16	1.5	50	6	US-10-131-827-6634	Sequence 6634, Ap	c 949	15.8	1.5	38	6	US-10-227-564-2628	Sequence 2628, Ap
c 877	16	1.5	50	6	US-10-131-827-6834	Sequence 6834, Ap	950	15.8	1.5	38	7	US-10-138-674-9499	Sequence 9499, Ap
878	16	1.5	50	6	US-10-131-827-6949	Sequence 6949, Ap	c 951	15.8	1.5	38	7	US-10-138-674-10081	Sequence 10081, A
c 879	16	1.5	50	6	US-10-131-827-7024	Sequence 7024, Ap	952	15.8	1.5	38	7	US-10-138-674-10169	Sequence 10169, A
c 880	16	1.5	50	6	US-10-131-827-7175	Sequence 7175, Ap	953	15.8	1.5	38	7	US-10-138-674-10308	Sequence 10308, A
c 882	16	1.5	50	6	US-10-131-827-7192	Sequence 7192, Ap	954	15.8	1.5	38	7	US-10-138-674-10310	Sequence 10310, A
c 883	16	1.5	50	6	US-10-131-827-7884	Sequence 7884, Ap	955	15.8	1.5	38	7	US-10-138-674-10577	Sequence 10577, A
c 884	16	1.5	50	6	US-10-131-827-7988	Sequence 7988, Ap	956	15.8	1.5	38	7	US-10-138-674-11053	Sequence 11053, A
c 885	16	1.5	50	6	US-10-131-827-8002	Sequence 8002, Ap	957	15.8	1.5	38	7	US-10-138-674-11208	Sequence 11208, A
886	16	1.5	50	6	US-10-227-567-7643	Sequence 7643, Ap	958	15.8	1.5	38	7	US-10-138-674-11772	Sequence 11772, A
c 887	15.8	1.5	22	1	PCT-US02-09776-7	Sequence 7, Appli	959	15.8	1.5	38	7	US-10-138-674-12787	Sequence 12787, A
888	15.8	1.5	25	5	US-09-956-604-6096	Sequence 6096, Ap	960	15.8	1.5	38	7	US-10-138-674-13031	Sequence 13031, A
889	15.8	1.5	25	5	US-09-956-604-27615	Sequence 27615, A	961	15.8	1.5	38	7	US-10-138-674-13294	Sequence 13294, A
890	15.8	1.5	25	5	US-09-956-604-27616	Sequence 27616, A	c 962	15.8	1.5	38	7	US-10-138-674-13521	Sequence 13521, A
c 891	15.8	1.5	25	5	US-09-956-604-98262	Sequence 98262, A	963	15.8	1.5	38	7	US-10-138-674-13732	Sequence 13732, A
892	15.8	1.5	25	5	US-09-956-604-98283	Sequence 98283, A	964	15.8	1.5	38	7	US-10-138-674-13770	Sequence 13770, A
893	15.8	1.5	25	5	US-09-956-604-99525	Sequence 99525, A	c 965	15.8	1.5	38	7	US-10-138-674-13848	Sequence 13848, A
894	15.8	1.5	25	5	US-09-396-196G-7824	Sequence 7824, Ap	966	15.8	1.5	38	7	US-10-138-674-14009	Sequence 14009, A
895	15.8	1.5	25	5	US-09-396-196G-26905	Sequence 26905, A	967	15.8	1.5	38	7	US-10-138-674-14244	Sequence 14244, A
c 896	15.8	1.5	25	5	US-09-396-196G-28443	Sequence 28443, A	968	15.8	1.5	38	7	US-10-138-674-14364	Sequence 14364, A
897	15.8	1.5	25	5	US-09-396-196G-44037	Sequence 44037, A	969	15.8	1.5	38	7	US-10-138-674-14465	Sequence 14465, A
c 898	15.8	1.5	25	5	US-09-396-196G-48964	Sequence 48964, A	970	15.8	1.5	38	7	US-10-138-674-14508	Sequence 14508, A
c 899	15.8	1.5	25	5	US-09-396-196G-48965	Sequence 48965, A	971	15.8	1.5	38	7	US-10-138-674-14597	Sequence 14597, A
900	15.8	1.5	25	5	US-09-396-196G-83518	Sequence 83518, A	c 972	15.8	1.5	38	7	US-10-138-674-14622	Sequence 14622, A
901	15.8	1.5	25	5	US-09-396-196G-117394	Sequence 117394,	c 973	15.8	1.5	38	7	US-10-138-674-15652	Sequence 15652, A
							974	15.8	1.5	38	7	US-10-138-674-15741	Sequence 15741, A


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; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5838
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-5838

Query Match          1.9%;   Score 20.2;   DB 6;   Length 50;
Best Local Similarity 68.3%;   Pred. No. 5.7e+04;
Matches 28;   Conservative 0;   Mismatches 13;   Indels 0;   Gaps 0;

Qy  1028 TTGTTCTCCACATAAAGAGATCAAGTCAAGCATTTCTGAAG 1068
      |||| | |||| |||| | | | | || || ||||
Db  47  TTGTGCGTCCACACAAGACAACACTAGGAGAGGATCCAGAAG 7

RESULT 5
US-10-131-831-4009
; Sequence 4009, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4009
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4009

Query Match          1.8%;   Score 19.8;   DB 6;   Length 50;
Best Local Similarity 69.2%;   Pred. No. 7.6e+04;
Matches 27;   Conservative 0;   Mismatches 12;   Indels 0;   Gaps 0;

Qy  804 GATTGGTCTGATGTCGCCATTGGACCTGGGTGTTGT 842
      | | | | | | | | | | | | | | | | | | |
Db  7  GTTTTCTCGTTCTGCCTCCTTTGGACCTGTGTTGTTT 45

RESULT 6
US-10-131-831-4982
; Sequence 4982, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4982
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4982

Query Match          1.8%;   Score 19.8;   DB 6;   Length 50;
Best Local Similarity 69.2%;   Pred. No. 7.6e+04;
Matches 27;   Conservative 0;   Mismatches 12;   Indels 0;   Gaps 0;

Qy  804 GATTGGTCTGATGTCGCCATTGGACCTGGGTGTTGT 842
      | | | | | | | | | | | | | | | | | | |
Db  7  GTTTTCTCGTTCTGCCTCCTTTGGACCTGTGTTGTTT 45

RESULT 7
US-10-131-827-4009
; Sequence 4009, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4009
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-4009

Query Match          1.8%;   Score 19.8;   DB 6;   Length 50;
Best Local Similarity 69.2%;   Pred. No. 7.6e+04;
Matches 27;   Conservative 0;   Mismatches 12;   Indels 0;   Gaps 0;

Qy  804 GATTGGTCTGATGTCGCCATTGGACCTGGGTGTTGT 842
      | | | | | | | | | | | | | | | | | | |
Db  7  GTTTTCTCGTTCTGCCTCCTTTGGACCTGTGTTGTTT 45

RESULT 8
US-10-131-827-4982
; Sequence 4982, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4982
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-131-827-4982

Query Match 1.8%; Score 19.8; DB 6; Length 50;
Best Local Similarity 69.2%; Pred. No. 7.6e+04;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 804 GATTGGTCTGATGCGCCATTGGACCTGGGTGGTGTGTGT 842
Db 7 GTTTTCTGTTCTGCTCCTTTGGACCTGTGTGTGT 45

RESULT 9

US-10-053-853A-1822/c
; Sequence 1822, Application US/10053853A
; GENERAL INFORMATION:
; APPLICANT: HAYASHI, Hideo
; APPLICANT: MAKINO, Koza
; APPLICANT: HAYASHI, Tetsuya
; APPLICANT: OHNISHI, Makoto
; APPLICANT: HATTORI, Masahira
; APPLICANT: KUROKAWA, Ken
; TITLE OF INVENTION: Polynucleotide molecules and polypeptides specific to Enterohemorrhagic Escherichia coli O157:H7 and use thereof
; TITLE OF INVENTION: Escherichia coli O157:H7 and use thereof
; FILE REFERENCE: 2002-0060A/WMC/01704
; CURRENT APPLICATION NUMBER: US/10/053,853A
; CURRENT FILING DATE: 2002-05-28
; PRIOR APPLICATION NUMBER: JP2001-112010
; PRIOR FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 1866
; SEQ ID NO 1822
; LENGTH: 41
; TYPE: DNA
; ORGANISM: Escherichia coli O157:H7
US-10-053-853A-1822

Query Match 1.8%; Score 19.4; DB 6; Length 41;
Best Local Similarity 70.3%; Pred. No. 9.3e+04;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 466 AGGGTGGAAAGTTTGTGAGAAAGCCAAAATAATTTG 502
Db 41 AGGATGGCAGTGTTCATGAGAAATAAAAAATAATAG 5

RESULT 10

US-10-131-831-5239/c
; Sequence 5239, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING TRANSPLANT REJECTION
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5239
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-5239

Query Match 1.8%; Score 19.4; DB 6; Length 50;
Best Local Similarity 70.3%; Pred. No. 1e+05;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 160 AACTATCGCCCGAGGTAATGATTAATTTCTTGAAGG 196
Db 37 AACAAATCCCCCAAGGTATCGATTATTTGTGGAAG 1

RESULT 11

US-10-131-827-5239/c
; Sequence 5239, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE DISEASES
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5239
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-5239

Query Match 1.8%; Score 19.4; DB 6; Length 50;
Best Local Similarity 70.3%; Pred. No. 1e+05;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 160 AACTATCGCCCGAGGTAATGATTAATTTCTTGAAGG 196
Db 37 AACAAATCCCCCAAGGTATCGATTATTTGTGGAAG 1

RESULT 12

US-09-504-231B-3044
; Sequence 3044, Application US/09504231B
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATABLE TO HEPATITIS C VIRUS INFECTION
; TITLE OF INVENTION: HEPATITIS C VIRUS INFECTION
; FILE REFERENCE: MBH00-801-A (247/282)
; CURRENT APPLICATION NUMBER: US/09/504,231B
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3258
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3044
; LENGTH: 50
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Modification
US-09-504-231B-3044

Query Match 1.8%; Score 19.2; DB 5; Length 50;

```
Best Local Similarity 47.9%; Pred. No. 1.2e+05;
Matches 23; Conservative 7; Mismatches 18; Indels 0; Gaps 0;

QY 723 AGCTGCCAAGCTAGCTACTGGAGCACATGTTGTTGGCAATGTGCTGGT 770
||:| ||||| | | | |||| |::|: | |: |::|:
Db 2 AGUUGAGAAGCCCAACCAAGAGAAACACACGUGUGGUACAUUACCUUGU 49

RESULT 13
US-09-274-553D-3044
; Sequence 3044, Application US/09274553D
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; TITLE OF INVENTION: HEPATITIS C VIRUS INFECTION
; FILE REFERENCE: rpi 247/282
; CURRENT APPLICATION NUMBER: US/09/274,553D
; CURRENT FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3148
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3044
; LENGTH: 50
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Molec
US-09-274-553D-3044

Query Match 1.8%; Score 19.2; DB 5; Length 50;
Best Local Similarity 47.9%; Pred. No. 1.2e+05;
Matches 23; Conservative 7; Mismatches 18; Indels 0; Gaps 0;

QY 723 AGCTGCCAAGCTAGCTACTGGAGCACATGTTGTTGGCAATGTGCTGGT 770
||:| ||||| | | | |||| |::|: | |: |::|:
Db 2 AGUUGAGAAGCCCAACCAAGAGAAACACACGUGUGGUACAUUACCUUGU 49

RESULT 14
US-09-611-931A-3044
; Sequence 3044, Application US/09611931A
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; TITLE OF INVENTION: HEPATITIS C VIRUS INFECTION
; FILE REFERENCE: MBH00-801-B (250/285)
; CURRENT APPLICATION NUMBER: US/09/611,931A
; CURRENT FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3044
; LENGTH: 50
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Molec
```

```
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Mo
US-09-611-931A-3044

Query Match 1.8%; Score 19.2; DB 5; Length 50;
Best Local Similarity 47.9%; Pred. No. 1.2e+05;
Matches 23; Conservative 7; Mismatches 18; Indels 0; Gaps 0;

QY 723 AGCTGCCAAGCTAGCTACTGGAGCACATGTTGTTGGCAATGTGCTGGT 770
||:| ||||| | | | |||| |::|: | |: |::|:
Db 2 AGUUGAGAAGCCCAACCAAGAGAAACACACGUGUGGUACAUUACCUUGU 49

RESULT 15
US-10-131-831-860
; Sequence 860, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 860
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-860

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 210 GCTTGGCATCACAAATTACATGCTCCCAAGAGA 241
||| | || ||||| |||| | |||| |
Db 19 GCTAGAAATAACAATTAGATGCCCCCAAGCGA 50

RESULT 16
US-10-131-831-1222
; Sequence 1222, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1222
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-1222
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```
Query Match      1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 67.5%; Pred. NO. 1.2e+05;
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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Qy	1039	CATAAAGAGATCAAGTCAAGCATTTCTGAAGCCTGAGATCG	1078
Db	1	CATGAAGCTCTCAAGTCCCTGCATTCCTGAGGATCCAGATGG	40

RESULT 17
US-10-131-831-3438
; Sequence 3438, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3438
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-131-831-3438

Query Match 1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. NO. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 210 GCTTGGCATCACAATTACATGCTCCCAAGAGA 241
 ||| | || ||||| ||| ||| ||
 Db 19 GCTAGAAATAACAATTAGTGCCTCCCAAGCGA 50

RESULT 18
US-10-131-831-4105
; Sequence 4105, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4105
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4105

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Query Match      1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. NO. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

Qy 210 GCTTGGCATCAACAATTACATGCTCCCAAGAGA 241
 ||| + || ||||| ||| ||| ||| ||
 Db 19 GCTAGAAATACAATTAGATGCCCAAGCGA 50

RESULT 19
US-10-131-827-860
; Sequence 860, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22.
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 860
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-860

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Query Match      1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

Qy 210 GCTTGGCATCACAATTACATGCTCCCAAGAGA 241
||| | || ||||| ||| | ||| ||
Db 19 GCTAGAAATACAATTAGATGCCCAAGCGA 50

RESULT 20
US-10-131-827-1222
; Sequence 1222, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMM
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1222
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-1222

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Query Match      1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 67.5%; Pred. NO. 1.2e+05;
Matches 27: Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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Qy 1039 CATAAAGAGATCAAGTCAAGCATTTCTGAAGCCTGAGATCG 1078
||| ||| ||||||| |||| ||||| | |||||
Dd 1 CATGAAGCTCTCAAGTCCTGCATCTCTGAGGATCCAGATGG 40

```
RESULT 21
US-10-131-827-3438
; Sequence 3438, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3438
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-3438

Query Match      1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 210 GCTTGGCATCACAAATTACATGCTCCCAAGAGA 241
      ||||| || ||||| ||||| ||||| ||||| ||
Db 19  GCTAGAAATAACAATTAGATGCCCAAGCGA 50

RESULT 22
US-10-131-827-4105
; Sequence 4105, Application US/10131827
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4105
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-4105

Query Match      1.8%; Score 19.2; DB 6; Length 50;
Best Local Similarity 75.0%; Pred. No. 1.2e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 210 GCTTGGCATCACAAATTACATGCTCCCAAGAGA 241
      ||||| || ||||| ||||| ||||| ||||| ||
Db 19  GCTAGAAATAACAATTAGATGCCCAAGCGA 50

RESULT 23
US-09-963-827B-86/c
; Sequence 86, Application US/09963827B
; GENERAL INFORMATION:
; APPLICANT: Duke University
```

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; APPLICANT: Sullenger, Bruce
; APPLICANT: Rusconi, Christopher
; TITLE OF INVENTION: RNA APTAMERS AND METHODS FOR IDENTIFYING THE SAME
; FILE REFERENCE: 180/124/2
; CURRENT APPLICATION NUMBER: US/09/963,827B
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,654
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 227
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 86
; LENGTH: 40
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: RNA aptamer
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(40)
; OTHER INFORMATION: RNA aptamer
US-09-963-827B-86

Query Match      1.7%; Score 19; DB 5; Length 40;
Best Local Similarity 71.4%; Pred. No. 1.2e+05;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 763 GTGCTGGTGCATGAGAGCGGCCCAAGATTGGAGAAGG 797
      ||||| ||||| ||||| ||||| ||||| |||||
Db 36  GTGATGGTGCCTGAGGCGGCCCAAGTTGGCGGAGGG 2

RESULT 24
US-10-131-831-3756/c
; Sequence 3756, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3756
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-3756

Query Match      1.7%; Score 19; DB 6; Length 50;
Best Local Similarity 65.1%; Pred. No. 1.3e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 149 TTTTGGCTATCAACTATCGCCCAAGGTAATGATTAATTTCTT 191
      ||||| ||||| ||||| ||||| ||||| |||||
Db 49  TGTGGGAATCTACAATTGCAAGTGGTTCAAAGTCATTTCTT 7

RESULT 25
US-10-131-831-4621
; Sequence 4621, Application US/10131831
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
```

```
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING
; TITLE OF INVENTION: TRANSPLANT REJECTION
; FILE REFERENCE: 506612000121
; CURRENT APPLICATION NUMBER: US/10/131,831
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9190
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4621
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-831-4621

Query Match      1.7%; Score 19; DB 6; Length 50;
Best Local Similarity 71.4%; Pred. No. 1.3e+05;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 697 TATCTAGACTCGATTAGGAAGAAATCAGCTGCCAA 731
    ||| ||||| ||||| ||| ||||| ||||| |||||
Db 4 TATGTGGACTGGATTAGGACACCATAGCTGCCAA 38

Search completed: October 22, 2002, 18:59:50
Job time : 355 secs
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